DEPARTMENT OF ARCHAEOLOGY
CENTRAL ARCHÆOLOGICAL
LIBRARY

CALL No. 25986 J. H.S.

(88)



22



PRINTEN IN GREAT BRITAIN BY THE CORNWALL PRESS, LIBITED; PARIS BANDEN, STAMFORD STREET, S.E. 1.

LIBITATE DE LOCALE DATE DE LA 2.57 J. H. S.

CONTENTS

										WACH.
Rules of the Society	0.0	1000	100	a 1 a	AND	100	F45	911	The.	= A// L
List of Officers	309	N.Sec.	225	31.00	-	mars	44=	. 4.10	25.96	
Proceedings of the Societ	y. 19	10-11	120	p. 4 B.	1000	394	bea!	200	XX	siii
Financial Statement				177			1-1	-406	15	
Additions to the Library		OHE:		E 00 8		222	100	741	list	
Accessions to the Catalog				140		175			Dix	110
Cromer Greek Prize		marker "			1000			The state of		xiii
ALLEN (T. W.)		Origin								20,118
		(Plat								T
Mouseroup (J. P.)		k_Mi								
The second second	1.	Time	E-re-	P 9 B	186	Esa	1-0-B-1	18.00	-10	177
Casson (S.)	Cor	aelius	Nep	661 S	Some	First	hai 2	Notes	-	4.3
Sипреано (J. Т.)	The	Hero Home						Form		行
Brown (H. F.)	The	Vene								
		in Co					elo	e of	the	68
Radisar (W. M.)	Mili	lary (Heiste	tions	1000	the	Nort	lı Fr	ont	-101
46 142 141	-	of M					te IJ	-	Mark.	389
Richter (G. M. A.)		Subje Relie								113
Casson (S.)	Hen	of K	annat	hos a	nd th	ė Lu	doyis	Thr	ome: 1	137
Tara (W. W.)		kles 1 288/7					Arc		of	145
Ganosini (P.)	The	Finan	cial:	Histor	ry of					60

CONTENTS

FORSTYKE (E. J.)	A Stag-horn Hear from Crete. (Plate VI.)	174
Six (J.)	Agatherenes 1	180
POCLER (F.)	A New Portrait of Phato. (Plates VII., VIII.)	190
RAMEAT (W. M.)	Pisidian Wolf-priesta, Phrygian Goat-priesta, and the Old-Ionian Tribes	197
GARDNER (E. A.)	The Aphrodite from Cyrene. (Plates IX., X.)	203
Care (M.)	Cornelius Nepes on Marathon	: 200
FORHERINGHAM (J. K.)	Cleostratus A Pressempt	208
Notices of Books	the same was an early and any	210
Index of Subjects	AND DESIGN THAT HER DANK MAN AND THE AND	241
Greek Index	and the same of the same and	243
List of Books Noticed		244

LIST OF PLATES

1.	The Uspensky Gospels, Vellum.						
II.	Papyrus from Afronita						
ш	Doctrina Patrum, Paper.						
IV	Sketch Map to Bustrate the Military Roads along the Pisidian Front	tior.					
V.	The Boston and Ladovisi Reliefs.						
VL	Head curved in Stag-horn						
VII.	Head of Plato, Syracuse.						
111.	Portrait Bust of Plato, Holkham Hall,						
IX.	Marble Statue of Aphrodite, Cyrene						
41							
J	LIST OF ILLUSTRATIONS IN THE TEXT						
he V	enetians and the Venetian Quarter in Constantinopie to Close of the Twelfth Century.	the					
66.11	The Venetian Quarter in Constantinople	74					
200 30							
	Hera of Kanathos and the Ludovisi Throne.						
iig. T.	Terracotta Figures of Hera from the Temple at Tryns	138					
	A Stag-horn Head from Crete.						
ig: L	Back of Stag-horn Head A	174					
. 2	Gold Mask from Mycenae	376					
. 13.	Head of Ivory Statuette at Boston	179					
	Agatharehos.						
ide. I	Town Wall in the Frieze of the Heroon at Teysa	186					
	and the state of t	138					

CONTENTS

	A New Portrait	of Pl	ato.					
Fig. 1.		Toes	200	(i) (i)	1400		***	191 193
	The Aphrodite from	n Cy	rene					
Fig. 11	Bronze Statuette from Alexandria	Mile	12	100	1812	2500	-0.000	204

RULES

OF THE

Society for the Promotion of Bellenic Studies.

- 1. THE objects of this Society shall be as follows:-
- To advance the study of Greek language, literature, and art, and to illustrate the history of the Greek race in the ancient, Byzantine, and Neo-Hellenic periods, by the publication of memoirs and medited documents or monuments in a Journal to be issued periodically.
- 11. To collect drawings, facsimiles, transcripts, plans, and photographs of Greek inscriptions, MSS., works of art, ancient sites and remains, and with this view to invite travellers to communicate to the Society notes or sketches of archæological and topographical interest.
- 111. To organise means by which members of the Society may have increased facilities for visiting ancient sites and pursuing archaeological researches in countries which, at any time, have been the sites of Hellenic civilization.
- 2. The Society shall consist of a President, Vice-Presidents, a Council, a Treasurer, one or more Secretaries, 40 Hon. Members, and Ordinary Members. All officers of the Society shall be chosen from among its Members, and shall be ex officio members of the Council.
- 3. The President shall preside at all General Ordinary, or Special Meetings of the Society, and of the Council or of any Committee at which he is present. In case of the absence of the President, one of the Vice-Presidents shall preside in his stead, and in the absence of the Vice-Presidents the Treasurer. In the absence of the Treasurer the Council or Committee shall appoint one of their Members to preside.
- 4 The funds and other property of the Society shall be administered and applied by the Council in such manner as they shall consider most conductive to the objects of the Society: in the Council shall also be vested the control of all publications issued by the Society, and the general management of all its affairs and concerns. The number of the Council shall not exceed fifty

19

To.

- 5. The Treasurer shall receive, on account of the Society, all subscriptions, donations, or other moneys accruing to the funds thereof, and shall make all payments ordered by the Council. All cheques shall be signed by the Treasurer and countersigned by the Secretary.
- In the absence of the Treasurer the Council may direct that cheques may be signed by two members of Council and countersigned by the Secretary.
- 7. The Council shall meet as often as they may deem necessary for the despatch of business.
- Due notice of every such Meeting shall be sent to each Member of the Council, by a summons signed by the Secretary.
- 9. Three Members of the Council, provided not more than one of the three present be a permanent officer of the Society, shall be a quorum.
- to. All questions before the Council shall be determined by a majority of votes. The Chairman to have a casting vote.
- it. The Council shall prepare an Annual Report, to be submitted to the Annual Meeting of the Society.
- 12. The Secretary shall give notice in writing to each Member of the Council of the ordinary days of meeting of the Council, and shall have authority to summon a Special and Extraordinary Meeting of the Council on a requisition signed by at least four Members of the Council.
- 13. Two Auditors, not being Members of the Council, shall be elected by the Society in each year.
- 14. A General Meeting of the Society shall be held in London in June of each year, when the Reports of the Council and of the Auditors shall be read, the Council, Officers, and Auditors for the ensuing year elected, and any other business recommended by the Council discussed and determined. Meetings of the Society for the reading of papers may be held at such times as the Council may fix, due notice being given to Members.
- 15 The President, Vice-Presidents, Treasurer, Secretaries, and Council shall be elected by the Members of the Society at the Annual Meeting.
- 16. The President shall be elected by the Members of the Society at the Annual Meeting for a period of five years, and shall not be immediately eligible for re-election.
- 17. The Vice-Presidents shall be elected by the Members of the Society at the Annual Meeting for a period of one year, after which they shall be eligible for re-election.

- 18. One-third of the Council shall retire every year, but the Members so retiring shall be eligible for re-election at the Annual Meeting.
- 19. The Treasurer and Secretaries shall hold their offices during the pleasure of the Council.
- 20. The elections of the Officers, Council, and Auditors, at the Annual Meeting, shall be by a majority of the votes of those present. The Chairman of the Meeting shall have a casting vote. The mode in which the vote shall be taken shall be determined by the President and Council.
- 21. Every Member of the Society shall be summoned to the Annual Meeting by notice issued at least one month before it is held
- 22. All motions made at the Annual Meeting shall be in writing and shall be signed by the mover and seconder. No motion shall be submitted, unless notice of it has been given to the Secretary at least three weeks before the Annual Meeting.
- 23. Upon any vacancy in the Presidency occurring between the Annual Elections, one of the Vice-Presidents shall be elected by the Council to officiate as President until the next Annual Meeting.
- 24. All vacancies among the other Officers of the Society occurring between the same dates shall in like manner be provisionally filled up by the Council until the next Annual Meeting.
- 25. The names of all Candidates wishing to become Members of the Society shall be submitted to a Meeting of the Council, and at their next Meeting the Council shall proceed to the election of Candidates so proposed: no such election to be valid unless the Candidate receives the votes of the majority of those present.
- 26. The Annual Subscription of Members shall be one guinea, payable and due on the 1st of January each year; this annual subscription may be compounded for by a single payment of £15 15s., entitling compounders to be Members of the Society for life, without further payment: All Members elected on or after January 1, 1921, shall pay on election an entrance fee of one guinea.
- 27. The payment of the Annual Subscription, or of the Life Composition, entities each Member to receive a copy of the ordinary publications of the Society.
- 28. When any Member of the Society shall be six months in arrear of his Annual Subscription, the Secretary or Treasurer shall remind him of the arrears due, and in case of non-payment thereof within six months after date of such notice, such defaulting Member shall cease to be a Member of the Society, unless the Council make an order to the contrary.

- 29 Members Intending to leave the Society must send a formal notice of resignation to the Secretary on or before January 1; otherwise they will be held liable for the subscription for the current year.
- 30 If at any time there may appear cause for the expulsion of a Member of the Society, a Special Meeting of the Council shall be held to consider the case, and if at such Meeting at least two-thirds of the Members present shall concur in a resolution for the expulsion of such Member of the Society, the President shall submit the same for confirmation at a General Meeting of the Society specially summoned for this purpose, and if the decision of the Council be confirmed by a majority at the General Meeting, notice shall be given to that effect to the Member in question, who shall thereupon cease to be a Member of the Society.
- 31. The Council shall have power to nominate 40 British or Foreign Honorary Members. The number of British Honorary Members shall not exceed ten.
- 32 The Council may, at their discretion, elect for a period not exceeding five years Student-Associates, who shall be admitted to certain privileges of the Society.
- 33. The names of Candidates wishing to become Student-Associates shall be submitted to the Council in the manner prescribed for the Election of Members. Every Candidate shall also satisfy the Council by means of a certificate from his teacher, who must be a person occupying a recognised position in an educational body and be a Member of the Society, that he is a bond fide Student in subjects germane to the purposes of the Society.
- 34. The Annual Subscription of a Student-Associate shall be one guinea, payable and due on the 1st of January in each year. In case of non-payment the procedure prescribed for the case of a defaulting Ordinary Member shall be followed.
- 35. Student-Associates shall receive the Society's ordinary publications, and shall be entitled to attend the General and Ordinary Meetings, and to read in the Library. They shall not be entitled to borrow books from the Library, or to make use of the Loan Collection of Lantern Slides, or to vote at the Society's Meetings.
- 36. A Student-Associate may at any time pay the Member's entrance fee of one guines, and shall forthwith become an Ordinary Member.
- 37. Ladies shall be eligible as Ordinary Members or Student-Associates of the Society, and when elected shall be entitled to the same privileges as other Ordinary Members or Student-Associates.
- 38. No change shall be made in the Rules of the Society unless at least a fortnight before the Annual Meeting specific notice be given to every Member of the Society of the changes proposed

REGULATIONS FOR THE USE OF THE LIBRARY

AT IS BLOOMSHURY SQUARE, W.L.

(NOTE - There Regulations are under Resistan)

- I. That the Hellenic Library be administered by the Library Committee, which shall be composed of not less than four members, two of whom shall form a quorum.
- II. That the custody and arrangement of the Library be in the hands of the Hon. Librarian and Librarian, subject to the control of the Committee, and in accordance with Regulations drawn up by the said Committee and approved by the Council.
- III. That all books, periodicals, plans, photographs, &c., be received by the Hon. Librarian, Librarian or Secretary and reported to the Council at their next meeting.
- IV. That every book or periodical sent to the Society be at once stamped with the Society's name.
- V. That all the Society's books be entered in a Catalogue to be kept by the Librarian, and that in this Catalogue such books, &c., as are not to be lent out be specified.
- VI. That, except at Christmas, Kaster, and on Bank Holidays, the Library be accessible to Members on all week days from 10:30 A.M. to 5:30 P.M. (Saturdays, 10 A.M. to 1 P.M.), when either the Librarian, or in his absence some responsible person, shall be in attendance. Until further notice, however, the Library shall be closed for the vacation for August and the first week of September.
- VII. That the Society's books (with exceptions hereinafter to be specified) be lent to Members under the following conditions:—
 - (t) That the number of volumes lent at any one time to each Member shall not exceed three; but Members belonging both to this Society and to the Roman Society may borrow six volumes at one time.
 - (2) That the time during which such book or books may be kept shall not exceed one month.
 - (3) That no books, except under special circumstances, he sent beyond the limits of the United Kingdom.
 - VIII. That the manner in which books are lent shall be as follows:-
 - (1) That all requests for the loan of books be addressed to the
 - (2) That the Librarian shall record all such requests, and lend out the books in the order of application.
 - (3) That in each case the name of the book and of the borrower be inscribed, with the date, in a special register to be kept by the Librarian.
 - (4) Should a book not be returned within the period specified, the Librarian may reclaim it.

(5) All expenses of carriage to and fro shall be borne by the borrower.

(6) All books are due for return to the Library before the summer vacation.

IX. That no book falling under the following categories be lent out except by special authority:—

(1) Unbound books.

Detached plates, plans, photographs, and the like.
 Books considered too valuable for transmission.

(4) New books within one month of their coming into the Library.

X That new books may be borrowed for one week only, if they have been more than one month and less than three months in the Library.

XI. That in the case of a book being kept beyond the stated time the borrower be liable to a payment of one shilling for each week after application has been made by the Librarian for its return, and if a book is lost the borrower be bound to replace it.

XII That the following be the Rules defining the position and

privileges of Subscribing Libraries -

a. Libraries of Public and Educational Institutions desiring to subscribe to the fournal are entitled to receive the fournal for an annual subscription of One Guinea, without Entrance Fee, psyable in January of each year, provided that official application for the privilege is made by the Librarian to the Secretary of the Society.

b. Subscribing Libraries, or the Librarians, are permitted the use of the Library and Slide Collections on the same conditions as

Members.

A Librarian, if he so desires, may receive notices of meetings and may attend meetings, but is not entitled to vote on questions of private business.

The Labrary Committee

*PROF. R. S. CONWAY.

*MR G. D. HARDINGE-TYLER

Mr. G. F. Hill

MR. T. RICE HOLMES.

Miss C. A. Hurron.

MR A H. SMITH (Hon. Librarian).

MR. JOHN PENOVEE, C.B.E. (Librarian).

Applications for books and letters relating to the Photographic Collections, and Lantern Slides, should be addressed to the Librarian, at 19 Bloomsbury Square, W.C. 1:

[.] Representatives of the Roman Society.

THE SOCIETY FOR THE PROMOTION OF HELLENIC STUDIES.

OFFICERS AND COUNCIL FOR 1920-1921.

President.

THE PRINCIPLE RESPON, R.C.B. Dilive. P.H.A.

Vice-Presidents.

VISCOUNT HEYCE O.M., G.C.V.O., D.C.J. LITE.D., F.B.A. SIR SIDNEY COLVIN, D.LITE. SIR ARTHUG EVANS, F.E.S. D.LITE, D.L.D. E.B.A.

MR. L. R. FARNELL D.Lerr., P.H.A. SIR J. G. FRAZER, D.Lerr., Lury.D., LL.D., D.C.L., F.R.A.

PROF. ERNEST GARDNER, Live.D. PROF. PERCY GARDNER, Live.D. U.L. F.B.A.

MR G. F. HILL, F.R.A. MR. D. G. HOGASTH, C.M. E. P. V.A. PROF. RENEY LACKSON, O.M., I-B,A.
PROF. RESTURET JONES, F.B.A.
MR. WALTER LEAY, LIST D. DUATT.
PROF. GILBERT MORRAY, F.B.A.
PROF. SIR W. St. BAMSAY, D.C.Y., LE.D.,
LITT D., D.D., F.B.A.
PROF. SIR WILLIAM RIDGEWAY, S. D., F.D.A.
SIR JOHN SANDYS, LISTER, D.LIST, F.B.A.
SIR JOHN SANDYS, LISTER, D.LIST, F.B.A.
REV PROF. A. H. SAYCE, LATT D., D.LIST
MR. A. HAMILTON SMITH.
HR CECH HARCOGRISMITH, C.Y.O., LL.D.
BIE CUARLES WALSTON, LISTED, FR.D.

Council.

MR W.C. F. ANDERSON.
MR N. H. RAYNES
MR. H. D. DEARLY
MR. H. L. BELL.
MR E. R. EFYAS
MR H. C. BOSANGUET
MRY. H. BROWNS
MR W. H. BUCKLES.
MR M. GARV.
MR M. CARV.
MR M. CARV.
MR J. W. DANIEL
PROJ. H. M. DAWKINS.
MR J. F. DROOF.
MR J. ALBOURDERLY, D.G. C.
MR J. ALBOURDERLY, D.G. C.
MR J. F. BROOF.

LADY EVANSMR. E. J. FORSDYKE.
MR. E. J. FORSDYKE.
MR. T. TIKODORETYFE.
MR. E. NOEMAN GARDINER
ME. H. R. HALL.
MISS.C. M. KNIGHT, LEVED.
PROV. W. E. DITHABY.
MR. E. W. LIVINGSTONE.
MR. E. W. LIVINGSTONE.
MR. E. W. ARTHUR STRONG, F.S.A. LET.D.
LL B.
PROF. PERCY N. URL
MR. A. J. B. WALL.
MR. A. J. B. WALL.
MR. R. B. WALLERS.
PROV. W. C. FLAMSTRAD WALTERS.

Hon. Secretary.

Hon, Treasurer.

MR. DECROE MACMILIAN, DIES, ST. MARTING STREET, W.C.

Assistant Treasurer.

MR. GEORGE GARNETT, ST. MARTIN'S STREET, W.C.

Hon Librarian

MR. A HAMILTON SMEEK

Secretary, Librarian and Keeper of Photographic Collections

ME! JOHN PENOTRE, C.B.E. ... BLOOMEBURY SQUARE: W.C. .

Assistant Librarian.

MERCEL WISE.

Acting Editorial Committee:

ME AL L'TORSDVATE

PROP. RENEST GARTISEY.

Approximate but be been be

Consultative Editorial Committee.

PHOPESSOR HENRY JACKSON, PROVESSOR GILBERT MURRAY, SIR PREDERIC KENYON and Mik. A. J. B. WACE (as offer as Director of the British School of Alberty).

Auditors for 1920-1921.

MILE IF CLAY

MR. W. E. F. MACHELLAN

Bankers

MESSES COUTTS: & COLUMN LOMBARD STREET RC.



LIST OF MEMBERS:

Chorred lance the publication of the last hat in Nol. XXXVIII of the Joursal.

+ Life Members:

* Lite difentice, élomper Canva,

1918

Gwynn, The Rev. Andrey, S. J., M.A. Changower, Wand College, Co. Kildare Republic Miss E., 52, Queen a Gate Garden, 5:W-7.
Marchetti, G., 135, Glomestler Terrare, W. 2
Clakes, Alfred Ch., 86, Airelale Assume, Chiswith, W. 4
Pantin, Mrs. W. E. P., 17, Demburat Road, West Kennington, W-14
Picktord, Miss M., Thorn Lee, Carmal Road, Darlington,
Ridley, M. R., 11, Pereival Road, Chibon, British.
Sherwood, Capt. Gay, Australian Chib, Melbourne, Australia.
Stephens, Rev. Edward, Chan College, Durham.

1919

Abercromby, Lord: 62, Palmarston: Place, Edinburgh Aldington, Mrs., 16, Bullingham Mannions, Church Street, Kanvington, W. S. Alford, Miss M., 31, Gloucester Gardens, Bishops Road, W. 2. Allan J. Dept. of Coins and Medals, Bruish Museum, W. C. 1 Anastasiadi, Mons. P., Mohammed Ali Chib, Alexandria Egypt. Arkwright, W., Thorn, Knighlon, S.O., Plymouth. Ashmole, Bernard, Hertford College, Oxford. Baring The Hon. Coul. S. Rishopspare; E.C. o Beames, Miss Eleanor, 24, Beaconspuld Road, Cliffe. British Beck, Horace C. 47. King Heary's Road, N.W. 3. Barnside, Rev. W V. St. Edminad's School. Canterbury. Byrde, O. R. A., Heath School, Halifux Crowe, The Rt. Hon. the Earl of, 38. Berkeley Square W. I. Dayal, Har, M.A., Proffack, 170, Stockholm, Seeden. Endy, Miss M., 12, Mornington Acouste, W. 8. Ellerman, Miss W., t. South Audley Street, W. t. Evans, F. D., The Grammar School. Maceleyfield Farmhar, Miss Helen, 11, Ridgrane Square, S.W. 1 Camble, Rev. H. Ja. 14. Frederica Road, Chingfood, Essex. Gardner, R., Emmanuel College, Cambridge, Graves, A. S., The How, St. Peter v Avenue, Coversham, Reading. Hambidge, Jay, 210 Dept. of Fine Arts, Vale University, Newhaven, Comp., U.S.A. Hardin, Alec D., Linton House School, Holland Park Avenue, W. 11. Hodgkin, F. E., Old Ridley, Stockfield, Northumberland Jones, T. Edward, 15, Edistaugh Road, Loward, Wolldsey, Chechire Last, H. M., St. John's College, Oxfords

Louis, Leonard, C. St. A. 3. Springs Terrace, Ilhlev. Maule, F. B., Waribech, Miley, Yorks. Milligan, Prof. G., The University, Glasgow Milne, Mrs. J. Grafton, Bankside, Louve Bonens, Farnham, Surrey. Mulvany, C. M., Queen's College, Bonares Nicole, Georges, z. Anemi Weber, Genera, Santerrland Pearman, E. Mornaili Park, Sunderland Prentice, C. H. C., 97, 99 St. Martin's Lane, W.C. & Reckitt, George F., 10, Downleam, Sneyd Park, Bristol. Roxburgh, J. F., Lauzing College, Shoreham, Sussex. Rudd, G. Edward: Stoneygate School, Leycester. Rughforth, G. McN., Riadlesden, Mairem Wells. Sualy, Rev. Walpolt, East Grinsland, Spacer. Tabor, A. S., Manor House, Cheam, Surrey. Vellenoweth, Miss, 13, Baldwin Crescond, S.E 5, Wing, Herbert (Jun.), Ph.D., 450, West Smith Street, Carlisle, Pa., U.S.A.

1920

Ainsho, Miss Gladyn, 20, 17 pper Westhourne Terrace, W .. 2. Alexander, Mrs. K., Red House, Bridge of Allen, Scotland. Allen, Miss H. C., The Training College, The Close, Salisbury. Almond, Miss Eleanora M., Westfield College, Hampstoad N.W. 1. Anderson, W., The Priory, Bishop's Waltham, Hanis. Applicton, J. H., Glengory, Meads, Easthourne. Archibald, Miss E. The High School, St. Albani. Askwright, The Rev. E. H., The School, Harrowson-the-Hill. Armstead, Miss H., 18, Clifton Hill, N.W. S. Armstrong, Rev. Claude B., B.D. The Wavden, St. Calumba's College, Hailfarnkam, Co. Dublin, Ireland. Asheroft R. L., M.A., M.C.: Hulleybury College, Hertford, Ashmole Mrs. Bernard, Nament Court, Newent, Glos. Ashworth, Kinest Horatio, B.A., I.C.S., Arran, Assume Road, St. Albans, Herts. Aston-Lawis W. H. D., Kingsand near Plymouth. Attlee, C. M. to Elistham Road, Edghasten, Brimingham. Baber, M., 32, Bedford Place, W. C.Y [official), and " Pitfield," Mechani, Kent. Hacon: Mas J. R., Girton College, Cambridge. Pagnani, Signor Gilbert, q. Via S. Martino at Macao, Rome. Bailey, Miss B. C., St. Mary's Priory, Printethorps, near Righty. Balley, George Leader, Lake Copais C. Aliarios, Greece. Ladey, W. O. Faircroff, Coblam, Survey Baily, Edward P., 20, Filtrames Avenue, W. Kennington, W. 14. Baldenton, John Lloyd. 67, Chevne Walk S.W . 5 Banleter, Mrs. Caynton Hall, Shifual, Shropshire Saring, The Hon. Windham, 37. Porlland Place: W. Barker, Ernest, Principal of King's Gallege, Strand W.C. z. Piglow, John St. Valerie, Bray, Co. Wickley Barnard, A. S. C. The Grammar School, Leeds Isarnard, Miss H. M., Treateroff, Stamford. Barnard, William, 3, New Court, Lincoln e Jun, W. C. z. Barr, Mark, 133, Church Street, Chebon, S.W. s. Barrington-Ward. J. G. Christ Church, Oxford. Burtlett, Mrs. Henry ofo Mr. Auslin K. Chadwich Treasure Five Cent Savings

Blank, Longell Mars. U.S.A.

Batchelor, Frank, Glasgow Academy, Glasgow,

Rates, Prof. William N., 220; St. Mark's Square: Philadelphia, Pa., U.S.A.

Batey, Rev. John Hall, B.Litt. Mayness Manse, Aulderra. Naira.

Payley Kennett C. dinmei Bam. Durham.

Baynes, N. H (Council) Fitswallers, Northwood, Middlesex

Beatty, Herbert Macmartiney, M.A., Ll. D., 32, Elars Rand, West Ealing, W. 13.

Bearley, Mrs. J. D., H. Benemont Street, Oxford.

Bell, J., Queen's College, Oxford.

Benn, Mrs. Allrod. Il Ciliegio, Via del Palmerino, Florence.

Berkeley, H. S., 270 Messes Rubardson of Co., 20, King Street, St. James 5, 5.W. I.

Bevan The Rev C. O., The Old Christopher, Elm College,

Dibliv. E. F., The University Leeds.

Bishop, J. E., 3: Shalimar Road, Acton W. 3:

Black, R. A., 275. Knoweley Road, Bootle, Liverpool

Blackett, Basil Phillott, C.B., Oxford and Cambridge Chib, Pall Mall, S.W. 1.

Blelloch, David H. H., The Orchard, Marston, Oxford.

Bodington, Lady, St. Ouslow Square, S.W. 7.

Body, Laurence A., S. Chad's College, Durham

Bouthins, Dr. A., S.t. Pergulin 31 Upuala, Sweden.

Boland, John P., M.A., 10, St. George's Square, S.W. 1

Bonar, James, I.3. D., t. Redrugton Road, N.W. 3.

Booth, G. A. W., Judge of the Mixed Courts, Cairo, Egypt. Bossinquet, Caroffrey Courthope, The Datch House, Sevenous.

Bothamley, Charles Herbert Westworth, The Shrubbery, Weston super-Mare.

Bousfield Miss II., Imperial Hotel, Tempy-

Bowen, H. C. St. Edmund's School, Canterbury

Box, Rev. G. H., M.A., D.D., King's College, Strand, W.C. &

Brahant, F., Wadkom College, Oxford

Brown, F. G., 4. New Quebec Street, Portman Square, W. r.

Brigg, William Andorton, Kildwich Hall, Keighley

Broadrick, H. C., Orley Farm, Harrow

Brodribb, Charles, 5, Stone Buildings, Lincoln's Jun. W. C. s.

Brooke, Mrs. J. Roove, t. Milre Court Buildings, Temple, ii. C. 1.

Broom, C. G. M., City of London School, Victoria Embandement, E. C. 4.

Brongmill, Miss M. S., The High School for Grils, Norwith

Brown, Miss M. T., Broadwinsor Victrage, Beaminster, Direct.

†Bruce, Miss A., 41A, Clauricarde Gardons, W. z.

Bruce, Henry, Sanney, Cornwall.

Brumwell, G. M., ut. Bromley Road, Shortlands, Kent.

Bramwell, J. R. M., Contaton, 34, Albern Road, West Dubetch; S.E. 21.

Bryant, The Rev E E., The Charleshouse, Goddlining.

Buckle, Clithbert Lyons, Urchinggood, Congresbury, Somersel.

Buckley, I. I., National Museum of Ireland, Dubles.

Budge, Sir Ernest, D.Litz., Brillah Musepin, W.C. 1.

Bullen, Miss H. F., 49, Graham Street, Eaton Square, S.W. 1.

Buren, Prof. A. W. Van, 35. Vin Pulestro, Rome 21, Italy,

Burford, James, 40, Hemingford Road, Barasbury, N. v.

Burrell, P S. B., Queen's College, Bennier.

Burstal, Edward, M.D., Tantallon, Madeira Road, Hournements

Butler-Bowdon, Miss E. Upwey House, Upwey, Dorselshipe

Batterwick, J. C. Eton College, Windsor

Cahill, Miss M., 137, Richmond Road, Ilford, Kases

Caldecott, Watson School House Waterhampton

Campbell, Archibald Young, M.A., St. John's College Cambridge.

Caron, F. T. K., 3, Partridge Rhad, Rhandelle ands, Liverpool.

Carr, Andrew, 4. Florence Rand, Bromley, Kent.

halmers, Right How Lord, G.C.B., 3. Cornwall Managers, Rentington Could, Landon, If &

Chante, A. F., Shrambury School, Shermibury

Chapin, Moss C., 34, Kensington Square, W. 8.

napin, Mrs. R. W. 34; Kennington Square, W. 8.

Chapman, Edward Henry, t. King a Beach Walk, Temple, E.C. 4

Chitty, Miss J. E., 72. Outdoor Gardent, S.W. 7. Chitty, Miss L. F., Homeood Rectory, near Shrewsburg.

Choremi, Cumstantine D. 23. Rue de l'Arsonali Marseille. France.

Paristle, J. T., Trinity College, Oxford.

Clarke, Stewart S., Cools Glebe, Communey, Co. Antron, Ireland.

Clayten, C. E. Coombe House, Glasconbury

Cubb, Sir Cyril, R.B.E., C.V.O., M.P., 5, Cornical Terrice, Righat's Park, N.W. 1.

Contrare, A. H. J., Eirarch Works, Nausantin-on-Tynn

Cogswell, Victor Gordon, "Summode," London Road, North End, Portsmouth

Cole, Miss M. H. Hernsey High School, Weston Park, N. 8.

Collegate, Arthur, The Poly, Antrolms, near Northwich, Checkirs

Callett, A. K. 3. Stone Ruddings, Lincoln's Inn. W.C. z.

Collingham, H., 7, Winchester Road, S. Hampstead, N.W. 3:

Coffinson, W. R., Margaretting, Weaford Road, S.W. 12

Compton, A. T. F.R.G.S. 42, Wellieck Street, W. t.

Cook The Rev. J. C., St. Bede's College, Alexandra Park, Manchester, S.W.

Cooper, Brunn, Major, Markree Castle, e stoomer, Ireland

Cooper. J. Paul, Betsons Hall, Westerham.

Camper Miss Kathleen, 48, Chailer Square, S.W. 1

Cooper Miss Venetia 48. Chester Square, S. W. T.

Coote Mrs. Stanley Germains, Chesham, Bucks.

Congrand S. L. 59, Pall Mall, S. U. 1.

Courtantel, Miss S. R., Bocking, Berkkamslead.

Caw, Mrs Paniglas, Rycereft, Streatham Common, S.W. 16:

Cowan, David. 27, Lindon Gardens, W. 2.

Cowley, John D. 13, Agamenton Road, N.W. 6.

Craises, Mrs., to, Labrandone Road, W. cr.

Creightem, Rev. C., King's School, Worcester.

Cramp, Dr. G. Lydston, 12. Heyandon Sweet, W. 1.

Cripps, Reginald, Paley Cottage, While Waltham, Mendenhead.

Crump, Miss M., M.A. 148, Ashbourns Mansions, Henden, N.W 4.

Centraell H M. Hillande, Harrow-on-the-Hill.

Cullen, James R., 56. Elms Road, Clapham Cammon, S.W. 4.

Cartis, C. Dinsmore, American Academy, Ports San Pancrazos, Rame.

Dale, F. R. D.S.O., M.C. M.A., e; Dunkeld Villas, Ford Road, Plymouth

Daniel, Miss C. Airlie House, High Wycombe.

Davidson, Charles J., 28, Rubidson Den Souta, Aberdeen

1Davies Miss Gwendoline E., Plas Diman, Llandinam, Minagomerychire.

+Davies, Miss Margaret S. Plas Dinam, Llundinam, Mantenneryskur-

Davies, The Rev] T. p. Abbey Green Chester.

Davies John. Rathlyon, Nortorion, Birkenhead.

Divies, William Samuel, 16. Guyde Consent. Swancea.

Univer, Mrs M. A., School House, Woodbridge, Suffolk,

Davis, Rushworth Kennard, School Houss Woodbridge, Suffolk,

Danklins J M. elie British Logation, Athens, Greece.

Deane Prof. Sidney N. 123. Elm Street, Northampion, Mass. U.S.A. Ge Montmorency; Prot. J. E. Ga. 3. Stone Buddings, Lincoln's Inn. W C. 1. Dempsey, Rev T. M.A. St. Joseph's College, Ballinastics, Co. Galaxy de Pary, Mrs., 73. Gower Street, W.C. 1. de Schincourt Oliver, Trinity College, Oxford. the Winton, A. J., Major, Pool Hense, Wormston, Hereford, Dickson, A. G. M., Silvermer, Warren, Cobham. Surrey. Direction, Miss A., A. Camden Studies, Canaden Street, N.W. a Dixon_H.J. Fettes College, Edinburgh, Dexent, Prof. W. M., The University, Glasgow. Dorld, Percy William, M.A., Jesus College, Oxford. Dodge, Miss Janet, S. Temple Gardens, N.W. 4 Dohan, Mrs. R. H. 37154. Chesnut Street, Philadelphia, Penn; Doneaster, Mrs. J. H.; Rirchneld, Beauconof, Shapirla Dorling, El., Colonel Francis, Dune, South Fornborough, Hant. Driver, Capt. Godfrey Rolles, Magdalon College, Oxford. Dudley-Buxton, L. H., Exeler College, Onford Dunn, Miss Ethel B. J. Upmends, Reignle. Karnshaw, Miss Edith M. 100, Birkhouse Lane, Moldgreen, Hadden Sold Easterling H. C., The Hollies, Loos Lane, Steachridge Edge, Cyril Tarratt, Vernon House, Szeilian Anenne, Southampton Rene, W. C. 1. Eliadi, M., Candia Crete. Evans, D. Emrys, 5. Victoria Park, Upper Bungar, N. Wales. Evetts, Miss Hilda D., Tearning College, The Glose, Salisbury. Exham, Percy G., Replon, Derby. Falkner, J. Meade Divinity House, Durham. Farquiar, Miss 1., 11 Molgeme Square S.W 1 Farrer, J. A., Ingleborough, Luncaster. Faull, Miss B M. Bank House, 141. High Street, Bronney. Pinich, Mrs., So Thornlow Road, West Norwood. Figher, Rev. G. E., The Hall, Repton, Desky. + Fitzgerald, G. M., King's Farm, Little Sholford, Camba. Flotcher, Miss E M . The Grove School, Highgale, N 6-Forbes : Kenneth, Ff.M.L. 23, Aferlow Street, Oxford. Porsey, G. F. B.A. M.A., 175, Gleneldon Road, Strenth in, S.W. 15. Finster, Hatry H. jo, Friends Roud, Craydon Frampton, Rev. R. E. E., Halstead Rectory, Supernoute, Kent. Finser, John, 19, Cardon Place, Abordeen. Freeman, F. L. About thurfe, Carnaram Read, Rolland, Bristol. Procuman, George S., 40 Collingham Place, S.W 3 Fugard. Rev. R. Cooper, Sherborne, Deriel. Frie, W. H., Christ's Thospital, Horsham Gandhu, Dr. S. H. D., M.B., 130, Wellington Road N. Stockfort. Cardner, Mrs E. A., J. Cannon Place. Hampilead, N.W. 3 Garnett Mis A., Furgield, Windermore. Gaskell, Percival, 11. Bellins Park, Hampstraa, N. H. J. Georg, Miss. 145; West End Lane, N.W. 6. Coden, Rev. Alfred S. D.D., May rolltah, Harbonder, Heric Genner, Miss G. B., M.A., to Gried Roud Oxford. George, Rev. W. E., M.A., 31, Hortington Street, Derby. Glisson, L.F., The Charterhouse, Codalineas Gillies, Ray. William Alexander, Manus of Kranuar, Aberfeldy, Parthebore Glyana, Rev. Win. H. T., Grovernov. House, Bishop Auchland

Colby, Maurice Edward. Holberth House, Nassau Street, W. 1.

Goldner, Alfred Loopold, M.A. 20, Wetherby Mannout, Earl's Court Square, S W 5 Goodliffe, A. H., St. Valeris, Enborns Road, Newbury, Berks.

Goodwin, Miss Una A: 115, Iffay Road, Oxford.

Cordin, Miss M. L., The University of Wales, Aberystayth, and Middle Claydon Rectiny, Steeple Chayden, Bucha.

Gordon, Walter Maxwell. Judde House, Tonbridge

Gourlay, Miss Jone A., 22. Cared Drive. Partichkill, Glasgow.

Grahmin, Richard B., Grove House Leighton Park School, Roading.

Grant Cecil, St. George's School, Harpenden.

Grant Frederick, Crestholms, Salthurn by Sea, Vorbs

Gray, Hunry A. Oslad Preparatory School, Surrey

Green, Miss E. M., 13, Clifton Gardens, Marda Voic, W. Q.

Greene, A. D., St. Martin's Rectory, Canterbury

Greene, The Right Hon, Sir Convugham, G.C.M.C., K.C.B., Belmore House, Lymington, Hauls.

Greene, F. Carleton, Ministry of Transport, 6, Whitehall Guidens, S.W. 1.

Greene, F. E. Kildass Street Club, Dullin

Greene, Harry Plunket, 63, Holland Park Road W 14.

Greenshields, W R., Westhey, Humbohurch Azminster.

Greenwood, John A., United University Club, Pall Mail East.

Grandy, A. G., The Pastures, Replon.

(Gunning, Dr. P. H. G., 31, Billitonstrual, The Hagae, Helland. Hands, Rov. A. W. The Rectory, Nevendon Wichford, Lindy

Hardy, Godirey Harold, New College, Oxford.

Hardy, H. H. College House, Chellenham.

Harris, Charles Reginald Schiller, Loffban, The Drive, Wimbledon, S.W. 19.

Harrison, A. B., 32 Dunchurch Road, Rughe

Hart, Miss Grove Lodge Highgate, N. b.

Haves, The Very Rev. Richard, The Deansey, Londonderry,

Head, Alban, Watersfield, Pulborough, Suiter.

Heath, Sir Thos. Little, K.C.B., K.C.V.O., F R.S. L., Reaford Gardens, Kensington. W. S.

Hedley, Theodore, F., 26 Beechwood Aronne, Darlington.

Henderson, Henry Ludwig, New College, Oxford.

Herniker-Gorley, Rev. G., M.A., West Ashby Vicurage, Horneastle,

Herring, Miss B., Wraysbury House, Wraysbury Buch

Heartley, W. A., Uplands, Bour's Hill; Oxford

Higham, Thomas Parrant, Trinity College, Oxford.

Hilley, F. C. W., Brilish Museum, W.C. L.

Hill, Mrs. G. F., British Museum, W.C. L.

Hobbling, Miss Margaret I., 5ar, Porthore Road, Bermingham.

Hobson, C. M., Durdant House, Derby.

Hodge, Muss Muriel C. Downlands, Cleabury Road, Worthrog.

Hodgsen, Norman, Nottingham High School, Nottingham.

Holden, Miss Jane Ellen, 7. Elgen Mansons, Elgen Avenue, Mania Vale, W. o.

Hollowell, Rev. W., Colday Grange Grammar School, West Kirby, Cheshire,

Hoom, Dr. G. Van. 5. Ramelrant, Utrecht, Holland.

Hopkins, T. H. C., M.A., Major, Inconts, Borkkamsled Heels.

Hopkinson, Marrin, M.A., Longmadon, Boungdon, Herts.

Horsfall, Miss K. M. 14. Finalis Terrace, Onslow Gardens, S.W. 7.

How, Rev. J. H., to North Bailey, Durkum

Howden, Charles R. A., Mayne, Elgie.

Holly, D., Prin Mondriklann & Amsterdam

Hunter Thomas William, M.A., Archbinhop's Moure, Westminster, S.W. 4.

xxiii

Huntington, Rev. G. H., Robert College, Constantinople.

Hurry, Jamieson Boyd, M.D., Westfield. Reading.

Hutton, James Doswell, The University, Glasgow,

Innes-Hopkins, G. B., Orley Farm, Harrow.

Ionides, Alexander Constantine, 34. Porcheder Terrare, Landon, W .:

Irons, Miss C. M., 14, Hillier Road, S.W. 11.

Trying, A. L., The School, Charterhouse, Godalming.

Jacks, M. L. Wadham Callege Oxford

Juckson, Charles K., 10. The Green, Richmond, Surry.

Jankins, A. E., 122, Lister Lane, Halifax.

Jenkins, Miss C. K. S. Eton Road, N.W. 3:

Jonkins, E. D. T., M.A., University College of Wales, Aberystwyth

Joels, Miss E. A., o. Wood Vale, Forest Hill, S.E. 13.

Johnson, Rov. F. W., Wharlton Vicarage, Westerhope, Newcastle-on-Tyne.

Reele, K. S., Waaham College, Ostord

Kelley, Professor Charles F. Ohio State University, Columbus, Ohio, U.S.A.

Kelly, Hb Hon. Judge Stanley Hill, Lingford House, Abergavenny.

Kemp, A. Gerdon, z. Abingson Court, W. 8. Kemp, M. C., Moretons, Harrow-on-the-Hill.

Kenjon, T. D., North Eastern County School, Barnavd Castle, Durham

King Willred Creyke, The Chald, Rachampton, S.W. 15.

Kingdom, T., Trenton Lodge, Stoneygate Road, Leicester.

Kipling, Percy Fallowneld, v. East Albert Road, Princes Park, Liverpool

Kirke, Henry, The Haywards, Middle Wallop, Herts.

Kjellberg Prof. Anders Lennart, Knogl. Universitet, Upsala, Sueden.

Knight, Rev. Angus Cliffon, Derby School. Derby.

Lake, E. W. C. The Charterhouse, Godalming.

Lamb, Mis. M., M.A., 11. East Atherton Street, Durham.

Lambard, Julian H L. The Old Christopher, Eton, Windson.

Lang, Algoriton Hermann, The Presbytery, Oxled, Survey.

Lang, Miss H. M. Tentier House, High Wycombe.

Langton Noville, 4 Collinghum Road, S.W. 5.

Law, Roy, Robert Hattley, Christ Church Vicarage, Prapith.

Lawrence, A. W., z. Postend Road, Oxford.

Lawrence, H. C., 40. Brunswich Square, Hove.

Laying, Arthur Edward, Midleton College, Co. Cork

Lea, Rev. F. S. D.D., The Vicanige, St. Austell, Commall.

Leaf, F. A. Wooderoff, Oxford, Surrey.

Lee, Miss Sylvia, Cambridge, Mass., U.S.A. 16/a Brown, Shipley & Co., 123, Pall Mall, S.W. E.

Lee, Mrs. V. M., Brynhamon, Bula, N. Wales,

Lee, W. S., The School House, Dovor College, Deere.

Lefroy Miss A., The Shrubbery, Streatham, S.W.

Legg; L. G. Wickham .. Sz; Woodstock Hond, Oxford.

Le Maitre, Miss E. K. L., No. 3 House, Roudeau School, Brighton.

Lowis Mrs. 53, Randenson Road, Oxford.

Lifthfull, H. T., Horris Hill. Newtown, Newhork, Beeks

Lindsay, Alexander Dunlop, Bullini College, Oxford.

Lister, E., che Charlevid Bank of India, Australia and China 38; Bishopsgate, E. C. 2.

Lloyd, Mrs. Hugh, 14, Berg Street, Marilaburg, Natal, S. Africa.

Lloyd-Baker, A. B. Ll., D.S.O., Decomphice House, Bath Road, Chellenham.

Lobel, E., The Bodician Library, Oxford.

Locock, Mrs. Gay, 20, Whitehall Court, 5 W. v.

Longrigg, Major S. H., Political Other, Kirnish, Meropolamia

Low, Miss Janes Inabella, Biebo, Lupus, Fife. Lowe, Lieut Col. W. Douglas, D.S.O. M.C., The Castle, Durham. Lucas, F. L. B.A. Ferndale, 41, Westcombs Park Road, Blackhoath, S.E. s. Lucis, St. John, 5: Pump Court, Pemple, E.C. 4 Lapton W. Arthur, Rad Gables, Hhley Lyon, P. H. B., M.A., Wester Ogil, Headington Hill, Oxford. Mans. Arthur James, v. Enmore Road, South Normond, S.E. 25 Macdonald, A. H. W., M.A., 180, Soho Hill, Birmingham Macdonald, Mess C. F. A. 3, Hope Street, St. Andrews, Scotland Macdemald, John 27, St George's Terrace, Newcastle-upon-Tyne. Macdull, W. A., 117, Alexandra Road, Parkstone, Darset, McElderry, Prof. Robert Knox, Aragrama, Galacop Mactathane, W. A. 54. Present Street, New Brighton, Wallacev. Macgregat, D. C., Ballud Callege, Oxford. Muchin, M. L., Wadham College, Oxford. McLutire, W. T., Tullie House, Carlisle Mick, H. Hamilton, B.A., L.R.C.P., 243, Roman Road, Bow E 3 McKenzie, The Rev. H. W., 15, Winnhealer Road, Oxford. Mackey, Thus. L., M.A., Oline House, High Street, Rechill-on-Sea. Mackingon, Miss Kutharine A., 22, Hyas Park Gardens, W. z. (McLachian, Mrs. 18, Talhat Hours, St. Marten . Lane, W.C. z. MucMaster, James, 5: College Austra, Londonderry. McNabb, Miss E. IC. 23, India Street, Charme Gross Glasgow. Machelll, Mrs., 57A. Great Cumberland Place, W. 1 Maitland F E., 74, Addison Road, W. 14 Mantinin, Prof. J. L., 7. Grown Il Gardens, South Konsington, S.W 7. Marriott, Rev. G. L. The University, Birmingham. Marsh, R. J. M.A. So, Thornton Road, West Norwood, S.E. 27. Marshall, F. H. C. Ruige Fant Headingley, Leeds. Marson, Mrs. Sc. Oukar, of Raid, Golder Green, N.W. 4 Martin, Miss A. P., M.A., 3, Marriell Aroune, N. 10: Martin, Miss G. E. G., B.A., Kembrick Gorls' School, Rending. Martinesa, Miss. 99, Rha Purb Gambers, S.W. 30, Manny to H., to Spenier Rand, Pulney, S.W. 12 Marsh M. J. L., 5, Margin inc Gordon, W. 6; Masterline-Smith Sir James, K.C.B., 43, Holland Street, Kentington, W. 8 Matheson, Alexander, 2, Calderwood Road, Ruthergien Glasgow Muttingly, H. British Musting, W.C. 1. Mayben Miss Mercy, and Messer. Wild, Collins & Crosse. Kennen's House, Grown Court Chrapside, E.C. Mend, Godfrey C. F., Aldenhum School, Eistere, Heris. Meek J. M.A. 2. Plympton A cane A W 6 Mellelejohn, Roderick Smeller, C.B., 40, Half Moon Street, Mayhair, W. a. Mellows, Charles, M.A. School House, Bishop's Stortford College. Meyorstoin, E. H. W., 3. Gray a Inn Place, W. C. r. Miller, Miss C. E. Farrismi, Arthur Hond, Wimbiadon, 5.W 19. Millican, S. S., 47. Shire shart Road, Birkenhe of Millin, S. S., 28, St. Kenin's Park, Darley Road, Dublin. Milne: H. J. M., Days, of MSS., Bentile Mensum W.C. t. Milsten, George Harry, New University Club. St. James's Street, S.W. 1. Mirriers, Miss Hope, Mount Blee: Great Shelford, Cambridge. -Milaranga, Milkindes A. 13, Rue Sylvabolle, Marcelle, France Mitchell, Rev. Michael J. St. Mare's College, Gallety Moon, Jasper, Chapelhouse, Paulington, Burkenhoud,

Moore, Chadwick H , o. Kong's Bown Walk, James Temple, E.C. 4.

Moore, Robert Then, Sakoul House, Stefford, Grave, Exces,

Morgan, T. Sydney, Limola House, Barkhamaba,

Motley, Frank, M.A., 34, Liehhill Terrais, Blackburn,

Morrisey, Rev. Hogh, St. Bode's College, Alexandra Pack, Manchester, S.W.

Murrison, R. D., 1, Rickmannworth Road, Warford, Horts.

Morrison, Wm., M.A., 1. Rickmanismorth Rand, Washard, Heats

Mountford, J. F., 115, Glever Street, West Bromwich.

Musley J It . The White Home, Madequere.

Model. Prof. Dr. Puter vim der, Hardistranse 99, Basel, Sentagrand.

Muir. Miss Jane S., 24. Monteill Row. Glasgow. Murray, John, M.P., Christ Charch, Oxford.

Minray, Miss S. W. Moore Park, Cardross, Trumbartonehire.

Mylne, Mrs., 145, Gloucoster Terrace, Hyde Park, W. J.

Nachmansen, Prof. Emest, Viktoriagatan 26. Gothenburg Sarden. Neill Wm. C. H., The Red House, Munic Street, Abridson, Fife-

Neimeyer, O. E., Treasury Chambers, S.W. v.

Nelson, Miss I. M., Secondary School for Giels, Nelson Perrant, Stoction-on-Tees.

Newbold, Major W., O.B.E. Cromer Hall, Leads, Newman, Miss Mary L., 7, College Street, Shemeld.

Newnalmin-Taylor, Rev. J. H., St. Anne's Vicarage, West Hill, Highgule.

Nicolson, Miss Amy, While Cottage, Green Lane, Godalung, Nilsson, Professor Martin P., The University, Land. Sweden

Norris, The Rev. J. W. Coke, Greenfields, Byron Hill, Harrow

Nunn, Rev. Henry P. V., Thorneliffs, Clifton Road, Heaton Moor, Stockbert.

Oakley, Henry Carey, 22, Oursley Rand, Balkom, S.W. 72.

O'Connor, His Honour Judge Arthur, K.C., Dunadale, Poole Read, Resembnanth,

Odoll, Miss W., M.A., St. Hugh's College, Oxford, Occommus, Dr. L., King's College, Strand, W.C. 2.

Ogilvie, F. Wi, Transly College, Oxford,

Ozame, Robert T., 14, De Pary, Avenue, Medford

Palmer, S. L., Avondule House, Unitanh Road, Norwich

Parker, H. M. D., Hertford College, Oufera:

Paterson, G. M., Neurick House, Chellenham. Paten, Sir Alfred Vaughan, K.B.E., West Kirby, Cheshire.

Paton, Miss Lucy Allen, The Strathcona, Cambridge, Mass., U.S.A.

Paton, Walter B., M.A., 10, Stanhope Gordens, S.W. 7.

Pearmain, John Lloyd, 46; De Parya derune, Bedford, Peat, Prof. T. Eric, a. Manley Road, Waterloo, Liverpool.

Polle, John, North House, Pulusy Hill, S.W. 15.

Penny, George Stephen, M.A., St. Marylebone Grammar School, 248. Marylebone Road, N.W. 1.

Pfuld. Prof. E., Schoubernsteasse 22, Basic, Sadtzerland.

Philiph. Philip H., 6, Old Bond Street, W. s.

Pirie-Gordon, Harry, D.S.C., M.A. 20. Warwich Gardens, Konsington, W 24.

Porter, Capt. H. E. L., M.C., The Grange, 85, Shrewfoury Road, Claughton, Birkenhead:

Porter, W. H., M.A. Lehenigh House, Cook, Ireland.

Post, Prof. Chandler R., 52, Brattle Street, Cambridge, Mass. U.S.A.

Potter, Mark 21, Nevelle Street, S.W. 7.

Poulsen, Prof. Dr Frederik, Ny Carlsborg Glyptolik, Copenhagen, Denmach.

Prescott H M. 137, Highleur Road, W to Price, Miss E. R., Judges Lodgings, Oxford.

Pridenix Walter Reginald, 104, Arundel Avenue, Liverpool.

Pyne: P. R. 16. Tun Siviet, Oxford.

Quirk. The Rev. Robert, Southgate House, Windhester.

†Rackham, Bernard, M.A., Victoria and Albert Mussum, S.W. 2.

Raikes, Humphrey Rivay, M.A., Exster College, Oxford

Raisman, J., B.A., 14, Carr Road, Leed, Ramana-Sastrin, V. V., Vedaraniam, Tuerore Dr., South India.

Ranger, C.A., M.A., West Downs, Winchester.

Ran, Arthur, Wadham College, Oxford

Rawson, Stanley W., Cauldbeek House, Southfield Read, Middlesbrough, Yorks.

Raymond Major E. H. B., D.S.O., The Norlands, Overbury, Tempesbury.

Roes, Griffith S., Wadham College, Oxford.

Relton, Rev. H. Maurice, D.D., The Vicarage, Islamorth, Muddlesex.

Raynolds, Paul Gray, New Bridge House, Upwell, or Wistoch, Norfolk.

Richards, Miss S. E. S., M.A., Stochwell Training College, Stockwell Road, London,

Richardson, G. W., B.A., 20, Wades Hill, Winchmore Hill, N., 21,

Richardson, Miss Hilida, Nemukam College, Cambridge.

Richardson, W. K., Sq. State Street. Boston, Mass.

Richmond, Bruce L., 3. Sumner Place, S.W. 7.

Ritchle, Miss E. D., St. Hilda's Hall, Oxford.

Roberts, A. Bruce, 21, Wood Lane, Hendingley, Leeds.

Robertson, James Boyd, B.A., a, Graham Road, West Kirky Robertson, Miss Mary W. U., 70, Carden Place, Aberdeen.

Robins, Miss Beatries I., Furcedown College, Welhum Road, S.W. 17.

Robinson, Alfred, 10. Wrottesley Road, Wolverhampton,

Roche, Eugene oz, Forthoridge Road; Clapham, S.W. 12

Rogers, Capt. F. E. Suevez Cottage, Newmarket, Cambi.

Roos, Prof. Dr. A. G., Waterholium 4, Grenzugen, Holland.

fitose, C. H. D., La Rocquoite, St. Brelade's, Jersey.

Riselatt Charles James Elon College, Windsor.

Rubic Rev A. E., D.D., Colleagham Restory, Market Harborough.

Russell, Thomas Brownley, Certon, on Colonial Secretary, Columbo

(Rutherland, Miss Helen, 17, Huntly Gurdens, Glasgow, II

Salisbury, F. S., M.A., The King's School, Wordstee,

Sargeaunt, George M., Hyde Lodge, Marlbarough.

Scholdbeer, J. V., British Museum, W.C.

Schröder, A., Tentersstrad a, Amsterdum, Holland.

Sant, is, F., Lywood House, Ardingly, Haymards Heath,

Scott, Thomas Toronce, Bradfield College, Borks.

Souly. The Rev. F. L. W., R.N., Harmondaworth Vicarage, Middleses.

Saltman, Chus. T., 24, Fulbrooks Road, Cambridge.

Shaw, Evelyn, M.V.O., t. Lowthey Gardens, Enhalding Road, S.W. 7.

Shebbeare, Herary Vivian, z. Southwood Lane, Highgate, N. o.

Sherard, Mrs. A., H.A., Long Boyds, Cobham, Surrey.

Sherlock, Miss II. Travers, The High School for Girls, Daver Street, Manchaster.

Sidebothum, Herbert, 7. Healisview Gurdens, Rochampton.

Simkins, W.A., M.A., Harsnetts, Chiganil, Exter-

Sumpsen, Mics Jewes, Somewilla College, Unford.

(Singer, Charles, D.M., F.S.A., Westbury Lodge, Norham Road, Oxford,

Skerry Miss D. M., 97 Corringham Road Unilders Green, N.W. 4.

Sharton, Mine Marianno, og. Kennington Gardens Square, Staymeater.

Stithonwer, D. F., P.s. Bookstrant 141, Amsterdam

Styper, Dr. E., Heiderich Handrideleval by, Utrecht, Holland.

Smillin, Dr. H., Onde Ebbingeste, box, Groningen, Holland.

xxvII

Smiley, M. T., The University Liverpool. Smith, Acc. Hallord, New College, Oxford. Smith, George (The Maste of Dulwich College), Dubrick College, S.E. 21. Smith, Miss Helen, B.A. 45, Crescent Road, Bromley, Rout. Smith, Prof. John Mexander, M.A., Magdalen College, Oxford. Snyder, Dr. G. A. S., Kundhistorisch Institut der Rifks: Universiteit: Wittenzowenstrait of Etrecht, Holland Sowels, Miss G. R., Brekhameted School for Girls, Berkhamited, Hert. Spencer: J. E., 2. Grove Terrace, Highgate Road, N.W. 5. Spicer, R. H. S.; 20. Graham Street, Euron Square, S.W. 1. Spokes, Mrs., 6, St. Andrew's Place, Regent's Park, V. W. L. Squire, S. C., Laxton House, Oundle, Northants. Stanhope Jones, Miss Editha, 87, Cadegan Gardens, S.W. 3. Stannard, Harold, M.A., 113. Jermyn Street, S.W. 1. Steed, Henry Wickham, 7, Landdowne House, Holland Park, W. 11. Stephens, G. J. W., 23. Sidney Parade Assume, Ralls Bridge, Dublin. Stewart, James Cameron, M.A., 70, Policath Gardens, Edinburgh Stokes: J. L., Charleshouse, Godalming. Stone, Charles Graham, Balliol College, Oxford, Stonehouse, Miss M. U., The College, Warking, Natts. Strangways, A. H. F., 3 King's Bench Walk, Tample, E.C. 4. Street, James Martineau, The Schools, Shrewsbury, Strudwick, Miss Ethel, M.A., 13. Marlborough Crescant, Bedford Park, W. 4. Sundwall, Prof. Dr. Johannes, Alio, Finland Sutton, Eric. British Delegation Reparation Commission, Hotel Astoria, Champs Elyzies, Paris, Swallow, Canon R. D., 3. Morpell Mansions, S.W. 1, Sydney-Turner, S. A., 37, Great Ormand Street, London, W.C.1. Sykes, Arthur, Ladywood Collage, Roundkay, Leids, Symes, Harold, M.A. Clavezmore School. Northwood Park, ur. Winchester. Targett, A. W., M.A., Fernest, Winterbourne Dannisey, Salisbury. Taylor, Miss B. A., 30. Exclusion Square, S. W. 1. Taylor, Miss E. M., The Woodlands, Baring Road, Grove Park, S.E. 12. Tavline, Rev. J. Ralph S., M.A. St. Lawrence College, Ramsgate. Taylor, W. R., 86, The Avenue, West Ealing, W. 13: Tenmant, B. V. A., 17. North Street, Westminster, S.W. 1. Thellon, Prof. Ida Carlaton, Vassar College, Poughkeepsie, U.S.A. Thomas, Dr. Henry, Dept. of Printed Books, Brillish Missum, W.C. 1. Thompson, Reginald Campbell, Milburn Lodge, Bear's Hill, Oxford, Thomson, Peter, c/o Black, 124, West Graham Street, Glasgow. Tierney, M., M.A., University College, Dublin. Tollemache, L. de Orellana, East Cottage, Bradfield College, Berkskire. Toynbee, Miss Jocolyn. 5. Paul Crescont, Cafaid. Toyne, F. Herbert, 34, Old Steine, Brighton. Tressler, A. W., The Charterhouse, Godalming. Treaton, H. J., M.A., 2, Willowbrook, Western Road, Cork. Tristram, The Rev. Henry, The Oratory, Hagley Road, Edgbaston, Birmingham, Turnbuil, Oswald, 73, The Grescent, Stamford Hill, N. 10. Turner, G. C., Marlborough College, Wills. Tyler, W. E., Beaumaris House, Bridgmorth, Salop. Upcoit, Gilbert Charles, C.B., B.A., 37, Southwood Avenue, Higheute, N. 6. Urlin, Miss A. A., The Grange, Rustington, Littlehampton.

Vore Hodge, H. S., M.A., Hill Side, Tonbridge, Kant.

Waddelli William Gillan, z. Stannington Azenue, Heaton, Neucastle-upon-Tyne.

XXVIII

Wadn-Gery H. E. Madkam College, Oxford

Walde, E. H. Stewart, Chiquell School, Erres.

Walker, Rev. James W. D.D., The Visurage, Newark-on-Tient.

Walkley, A. B., Lutte Ovehard, Berguttingson, Essex. Watt, Alfred Edward, 198, Mill Street, Ruthergien.

Watt. Miss S. M., 7, Langham Manrions, Earl's Court Square, S.W. 4.

West, Owen L. C. Bratheld College, Birks.

Westaway, Miss K. M. Royal Holloway Collège, Engleweld Green, Survey

Whinputes, Mins Amy, 124, Shoane Street, S.W. a.

Whinvates, Ralph, M. C., to, Neville Street, S.W.

Whitcomb, P. W., Shawner, Osborns Road, Walton on Thomes

White Cyril Montgomery, The Copes, Northwood, Middlews.

White, Newport H., 20, Eign Road, Hereford.

Whitehead, Miss F., 38, Clarkehouse Road, Sheffield

Wickham, Frederick O.B.E. I. Montpelier Square, S.W. ;

Williams, John Bancrott, Dolforgan, Kerry, Montgomeryckur-

Williams, Rev. A. T. P., Second Master's Hinter, The College, Winchester,

Williams, Ernest, 12, London Road Terrace, Cartisle.

Williams, L. T. M. Lee House, 12, Dyle Road, Brighton.

Williams, Leonard, The Grammar School, Welverhampion.

Williams, Richard, Grammur School, Conbridge, S. Wales.

Wilson, Robert, 9, Marden Terrace, Cullercoats, Northumberland

Wood, A. H. Roard of Education, Whitehall, S.W. 1.

Wood, Miss A. L., Whielmright Grammar School, Desichury, Varns.

Wood, J. R., 51. Montgomerie Street, Kelvinside N. Glacenc.

Woodhouse, C. A., 12, Priory Gardens, Highgate, N. c.

Worsley, Sir William H. A., Bart., B.A., Hovingham Hall, Malton, Yorks.

Wyllie, Basil P. 47, Reper Road, Canterbury.

Wynne, The Rev. Henry, St. Mary's Vicarage, Poplar Avenue, Edgouston, Bismingham.

Yeatman, F. D., S. King's Beach Wall, The Temple, E.C. 4

Yeo, George Spencer, v. Bende Square, Stourbridge, Wores,

Young-Evans, J. B., Pembroke College, Oxford.

Zaharoff, Sir Basil, G.B.E., 53. Avenue Hocks, Pasis.

Zilliacus, Pool. Dr. Emil. Slottsgatan 28. Helsingfors. Finland

ADDITIONAL LIST OF LABRARIES SUBSCRIBING FOR THE IOURNAL OF HELLENIC STUDIES.

The priviles of Shighding the Latinus of Bellium Stanlier on the sine round in the surjoyed by anomalies of the Society is resembled to Libraries. Applications should be more to the Special Art to the Sp

GREAT ERITAIN AND TRELAND

Ampletorth, The Library of Ampleforth Abbey, Mallion, Yoshi Barnstaple, The Library of the Grammar School for Curts Harn dayle.

Birmingham, The Library of King Edward's School, School, School

The Library of Reignaston High School for Chris in Hagley Road, Engoarten, Kirminghilm.

Bradford, The Library of the Grammer School, Bradford. Cambridge, The Library of the Loys School, Cambridge.

Cheltenham, The Library of Cheltenham College, Cheltenham. The Library of Dean Class's School, Chellandam

The Library of the Grammar School, Cheffenham The Library of the Ladies College, Cheliculain

Christ's Hospital The fahrary or Christ's Mespatal. Horsham. Clifton, Badminton House School Clifton Bristol (Headmistress-Mus B. M. Bulkerth

Denstons, The Library of Denstone College, Denston, States

Dublin, The Library of University College, Public. Durham, The Library of St. Chad's Callege, Durham

Exeter; The Library of Exeter School, Exeter.

Poisted The Lithrary of February School, February, Casev.

Glenalmond, The Library of Trinity College, Glenalmond, Profitchire, Gravesend, The Library of the County School for Girls, Gravesend, Kent. High Wycombe, The Esbrary of Godstow School, High Wicombs.

Hull, The Library of Hymer's College, Hall

Lords, The Library of Thorosby High School for Girls Lords London, Dr. Williams Library, Gordon Square, W.C. L.

The Library of St. Olave's School. Tours Bridge, S. h. 12

The Lilwary of Westfield College, Hampelean, N.W. 3, Miss C. S. Parker. The Library of St. Paul's Girle School Brook Green, Hammer mith W. 50

(Blackheath), The Library of the High School for Girls Wenny Road, êŒ. Machhanth; S.E. 30

gt amberwell). The Library of the Mary Datchelor School for Girls. The Come, Cambernell, S. E.

Chapbann). The Library of the Chapbann High School for Ciris, 63, Small Side Chaplum Common S.W. s

(Clapten). The Library of the County Secondary School, Laure Place, I mer Chapton Road, E. 5

of mython). The Labrary of Groydine High School for Girls Welleshy Read, H.E.

(Intwich), The Library of Dulwich College Duhena 5 4:

Kentish Town), The Library of the Countr Secondary School, Highgate Mond N.W. 5:

(Streatham), The Library of Streatham College for Guile, 254; High Road, 4.0 Argertham A.W.

Newport, I. o W., The Library of the Director of County Education, County Hall, Newport, I. o. W.

Oldham, The Library of Rubne Grammar School, Claham, Lancs

Oxford, The Library of Manchester College, Deford

Pandleton, The Library of Pendleton High School, Manufacture.

Bugby, The Library of Rugby School, Rugby.

Rugeley, The Library of St. Anne's School. Abbot's Brondey, Rugeley.

Sedbergh, The Library of Sedbergh School Scatbergh, Yorks, Sheffield, The Library of King Edward VII School, Sheffield,

Southend, The Library of Southend-on-Sea High School for Girls Boston dermar.

Southend-on-Sea.

Wakefield, The Library of the Girls' High School, Wakefield Worksop, The Library of Worksop Callege, Worksop, Notts. York, The Library of St. Peter's School, York.

COLONLAL

Saskatchewan, The Library of the University of Saskatchewan, Sacrateon, Canada. Vancouver, The Library of the University of British Columbia, Vancouver, 21.C.

UNITED STATES OF AMERICA

Andover, The Library of Phillips Academy, Brechin Hall, Andover, Mass., U.S.A. Carleton, The Library of Carleton College, Northpold, Minn., U.S.A. Grinnell, The Library of Grinnell College, Grinnell, Iona, U.S.A. Schenestady, The Library of Union College, Schenestady, Naw York, U.S.A. Washington, The Library of Washington and Justerson College, Washington, Prince U.S.A.

FRANCE

Dijon, La Tshibisthèque de l'Université, Dijon.

Paris, La Bibliothèque d'Art et d'Archéologie, 15, Rue Sponlint, Paris, XVI—

Strasbourg, La Bibliothèque Universitaire et regionale.

HOLLAND.

The Hague, Tweede Gymmasium van's Gravenhage. Kommgemegracht, 23. The Hogue, Holland.

LIST OF JOURNALS, &c., RECEIVED IN EXCHANGE FOR THE JOURNAL OF HELLENIC STUDIES.

American Journal of Archaeology (Miss Mary H. Buckingham, 90) Chesmus Sweet, Bollon, Mass., U.S.A.)

American Journal of Numismatics (American Specify of Numismatics, Broadony, and 150la Street, New York, U.S.A.)

American Journal of Philology (Library of the Johns Hopkins University, Ballimore,

Anniecta Bellandiana, Secteté des Boltandistes, 23, Bondovard SandoAffichel, Bruvelles Annales de la Faculté des Lettres de Bordeaux (Revur des Études Anciennes faulterin Hispanique Mm les Redarteurs Fazulte des Leitres L'Université Bordenes, France)

Annals of Archaeology and Authropology (The Institute of Archaeology, 11, Abercomby Square, Lourgoof).

Annual of the B.S.A. (The Labrarian Britis School, Athens, Greece).

Annuario della Regia Schola di Atens. Attens Greece.

Archatologiko Epheneria Société Arché-logique, Athena, Grette

Archabdogikon Deltins (M. CEphore, Section archivlogique, Ministère de l'Enat ignizment, Alberta).

Archiv für Religionswissen chait (The Editor, c/a B. G. Toubust, Leipzic).

Berliner Philologische Washenschrift (The Editor, efo G. R. Reisland, Carlesbuss, 20.

Bullistin de Correspondance Hellenique (M. le Bibliothicaire, École Françaire,

Bullerm de la Société Archéologique d'Alexandres (M. le Sacrélaire, Société Archéologique, Alexandria).

Ballettino della Commissione Archeologica Communale di Roma IIII-. Sig. Prof. Butti. Muses Capitolino, Romes.

Byzantmusche Zelf-chrift (The Editor, sie B. G. Taubuer, Lespite, Germany).

Catalogue du Musée du Caire. Annuies du Service des Antiquités de l'Egypte (The Librarian, Le Musée du Caire, Carro);

Classical Philology (The Librarian, Library of the University of Cincago, U.S.A.) Carette des Benes-Arts wad Chronique des Arts [The Editors, 406, Boulevard St. Garqueta, Paris. PH).

Ghatta (Prof. Dr Westschmer, Florenniguese, 23. Viennes).

Hermas Herr Professor Friedrich Leo, Friedlandar Weg, Gottingen, Garmany) Jalobuch des deutsch auchhol. Instituts (The Secretary, Corneliustranos, No. 20,

Jahresheite üles Otterrichisches Archaologisches Institut, Tüskeustrasse 4. Vienem. Journal of the Anthropological Institute, and Man. 50. Great Russell Street, W.C. 1. Journal of Egyptian Archaeology Hon. Editor, Dr. A. H. Ganfiner of Lonidowne Road, Holland Perk, W. 11).

Journal of Philology (The Editor, c/o Museum of Class, Arch., Little St. Mary s.

Institut of the Royal Institute of British Architects (The Secretary, 9, Conduct

Journal International d'Archéologie Numineurique (M. J. N. Secronos, Muses National, Athensh

Melanges Ornantales (Lev E. P. Hedictions, Université S. Jaseph, Boyundh, Syelaj. Mélanges d'Histoire et d'Archéologie (École françaire, Palaris Farnese, Rome). Memoirs of the American Academy in Rome (The Librarian, American Academy, Ports San Pancrarco, Romey.

Memorie dell' Instituto di Rologna (El Seguor Hibliotecara), R. Accadenna di Mongaz, Dale).

Militethingen (Athernache) (Dentisch Archied Jant., Ras Philifia), Atherni, Militethingen (Rimische) (Dentisch, Arga Inst Connelleationes, 2º, Erstin)

Musmosyne ir/o Mr. E. J. Belli Leiden, Holland)

Name Juliebücher (Herr Dr. Rehlm Bhary, 1/0 B. G. Traines, Lespoit, Germany)

Noticie degli Scavi (II. Signor Segretario, R. Alcudemta dei Lincei, Rome) Numismatic Chronicle (R. Numismatic Squalty, 22, Russett Square, W.C. 1). Philologus (The Editor, 2/2 District acts Verlogshuchhandlung, Gritingen)

Praktika IV. le Secretaire, La Socialte Arthdologique, Athens,

Proceedings as Mellenn Philological Syllogon (M. le Sérebaire, Syllogon Gren Letbruire, Rine Coppilar 18, Para Constantinophi)

Rassegua Italiana di Lingue e Letternaure classiche (Prof. Camello Cesse, Bananello, Padoni, Italy).

Réportoire d'Art et d'Archéologie (Hibbothème d'Art et d'Archéologie, 16-18, Rue Spoulint, Peris).

Revue Archéologique (s/s M. E. Leroux, Editorr, 28, Rue Bonapaele, Par(s)

Revue des Études Grecques (The Edulor, 44, Rus de Lille, Paris)

Syria (Hant Commencariat de la République Française, Service des Integuttes, Bevrouth, Syria).

University of California Publications in Classical Published and in American Archaeology (Exchange Department, University of California, Berheley, Ca., U.S.A.).

Wechenschrift für klassische Philologie (The Editor, che Weitensennighe Biethbredlung, Zimmerstraße 14. Reelin, S.W.).

PROCEEDINGS

SESSION: 1010-1920

During the past Session the following Papers were read at General Meetings of the Society:—

- November 10th, 1919. Mr.: Jay Hambidge : Symmetry and Proportion in Greek Architecture (see below, pp. xxxvi. f.).
- December 16th, 1919. Mr. Jay Hambidge: Symmetry in Greek Architecture.
- February 10th, 1920. Mr. E. J. Forsdyke: A Mycenneum Head recently acquired by the British Museum (J.H.S. al. pp. 174-9).
- May 11th, 1020. Mr. A Hamilton Smith: The Life of the Ancients as illustrated by Objects in the British Museum (see below, p. xxxviii.):
- July 23rd, 1920. Signor G. Bagnam : Recent Discoveries at Boughazi (Cyrene) in Tripoli (J.H.S. xli.).

THE ANNUAL MEETING was held at Burlington House on June 22nd, 1920. Sie Frederic Kenyon, President of the Society, took the Chair and presented the following Annual Report of the Council:

The Council beg leave to submit the following Report for the Session 1919-20.

The past year has been a very critical epoch in the history of the Society. At the beginning of the Session the Council was confronted with the problem of ways and means. In spite of the most rigid economy in expenditure the estimated deficit for the year 1919-20 was between £400 and £500. This was due partly to a loss of subscriptions arising from the war, but mainly to the increased cost of paper, printing and binding, of books and of photographic materials of distribution, and every form of service.

Such a deficit could be met in three ways: (1) By a deastic curtail-

ment of the Society's activities such as the suppression of the Journal or the closing and sale of the Library and slide collection; (2) by doubling the subscription; (3) by a large increase in membership. The Council did not feel inclined to adopt either of the first two remedies. They felt that the only means of recovery and continuance, consonant with the Society's history and with the time, was not to double the subscription or to give less, but to double the membership and give more The only question was how could the membership be doubled, for though the widespread entimisasm for education is a hopeful feature of the future, a devastating wave of disbelief in the practical value of a knowledge of the ancient Greek language threatens to sweep the subject out of the curriculum of most schools. But all humanists know that no education can be complete which does not reckon with the beauty, moderation and wisdom of life which characterized ancient Helles, and the Society can bring no better gift to the times than to widen the opportunity for profiting from the inspiration that comes from Hellenic Studies.

As a first step Mr. Macmillan wrote a letter to the Times, explaining the position of the Society. The most notable response was a donation of \$1,000 from Sir Basil Zaharoff, who suggested that the money might be applied to meet the apprehended deficit while steps were being taken to place the Society upon a more secure financial basis. A Sub-Committee was appointed to consider and co-ordinate the various suggestions which had been received and to report to the Council. The information laid before this Sub-Committee and the experience of the officials and of those members of the Council who were most closely in touch with the rising generation all pointed to one conclusion: The Entrance Fee of Two Guineas was the great bar to recruiting new members. The Sub-Committee therefore reported in this sense to the Council, recommending a limited suspension of the Entrance Fee, and their recommendation was adopted. The amount of the Entrance Fee is fixed by Rule 26, and by Rule 38 changes in the Rules can only be made at the General Meeting held (under Rule 14) in June of each year. It was not, however, to the interest of the Society that the recruiting campaign should be postponed for six months, and the Council took the responsibility of ordering the immediate suspension of the Entrance Fee for the first 500 members elected in 1920, pending approval by the Annual Meeting in accordance with Rule 38.

In justification of their action the Council now report that 458 new members and forty-five subscribing libraries have joined the Society since Jamiary. This gratifying result is due partly to the cordial cooperation of the members, old and new, and partly to a series of carefully planned special appeals issued by the Society's Scaretary, Mr. Penoyre. The Council believe that the effect of these appeals is not yet exhausted and that they may bring in more members if a further extension of time is allowed during which the Entrance Fee is suspended, though in fairness to earlier members who paid this fee, its indefinite suspension

cannot be justified. They, therefore, recommend that the Entrance-Fee be suspended until December 31st, 1920, and be re-imposed at the rate of £1 1s as from January 1st, 1921. Resolutions respecting the Council's action and the Society's future policy will be submitted to the meeting.

As a result of Sir Basil Zaharoff's generosity, and the large accession to the membership, the financial position of the Society is at present satisfactory. But the cost of everything increases daily. It is, therefore, of the first importance that the supply of new members should be constant, and the best service members can do the Society is to bring its work to the notice of their friends.

No new development of the Society's activities has been undertaken during the past session as the officials and staff have been very fully occupied in launching the various appeals, and in coping with the great increase in the demand for books and slides. A scheme is under consideration for a series of papers of a less technical character than those usually read at the General Meetings. It is hoped to arrange for four such papers during the next Session, two in the afternoon, and two in the evening.

The thanks of the Council are due to the following ladies who have kindly given help in the Library, in response to the Secretary's appeal for voluntary workers. Hon, Mrs. Bethell, Mrs. Culley, Miss E. A. S. Dawes, Mrs. Guy Dickins, Miss Lindsell and Mrs. Milne. The Council much regret that Mr. Penovre's health, which suffered severely from his war-work activities, has again broken down under the strain of his exertions to replace the Society on a firm financial footing, but they have every reason to believe that he will be able to return to his post in the Autumn. His illness fortunately does not entail any curtailment of facilities for borrowing books and slides as that department is in the competent hands of the Assistant Librarian, Mr. F. Wise, who was demobilized in August, 1919.

Changes on the Council, etc.—The death roll for the past year contains the names of Dr. Edmond Warre, late Provost of Eton, of Dr. Ronald Burrows, Principal of King's College, London, of Mrs. Margaret Gibson, the distinguished student of Syriac MSS, and of Mr F. W. Hashick.

Dr. Burrows had been a member of the Council since 1907. The zest and enthusiasm which he brought to the study of archaeological problems makes it a matter for great regret that the many other claims on his energies obliged him of late years to put archaeological study on one side. But, as an advocate of Hellenic Studies in the widest sense he was mainly instrumental in the foundation of the Department of Modern Greek and Byzantine Studies in the University of London, King's College, and of the Korais Chair.

Mr. F. W. Hashick, for some years Assistant Director and Librarian

of the School at Athers, was known to readers of the Journal, and of the School Annual, by a number of studies in the by-paths of the mediaeval history of Greece and Turkey based on much study of annualished documents. He was also much attracted by the folklore of the Mohammedan religion, and its many "adoptions" from the Orthodox Church, about which he gathered much curious information during years of travel in Asia Minor, Turkey-in-Europe, and the Levant. His one published work, a History of Cyricus, is a model of sound and recondite learning used with good judgment.

The impending retirement of Mr. George Macmillan from the post of Honorary Secretary of the Society was announced with deep regret by the Council last year. They have now to report that the resignation took effect as from November 11th, 1919, when the Council placed on record their grateful sense of his unwearied care for the Society's best interests during his forty years to ancey of the Honorary Secretaryship. The resignation does not seven Mr. Macmillan's long official connection with the Society, as he has consented to take over the duties of Honorary Treasurer, of which Mr. Douglas Freshfield had asked to be relieved. In accepting Mr. Freshfield's resignation the Council conveyed to him, on behalf of the Society, their well-carned thanks for the consistent care given to the Society's interests in his office as Honorary Treasurer for the past twenty-two years. The Council have elected Miss C. A. Hutton to the Honorary Secretaryship in recognition of her voluntary work for the Society from 1916 to 1919.

No additions to the number of Vice-Presidents are recommended this year. Miss J. E. Harrison, a member of the Council for many years, and the Society's representative on the Committee of the School at Athens, has been compelled by pressure of other work to resign her seat on the Council. The Council accepted her resignation with regret, and have co-opted Professor Bosanquet in her place. They have co-opted the Rev. Henry Browns, S.J., Professor of Greek in the National University of Ireland, in place of Miss C. A. Hutton who vacates her seat on election as Hon. Secretary. The following members of Council who retire by rotation under Rule 18 are nominated for re-election. Lady Evans, Messrs, W. C. F. Anderson, H. I. Bell, Bosanquet, Lethaby, Myers, Wace and H. B. Walters, Messrs, Minns and Zimmern retire, and Messrs N. H. Baynes, R. W. Livingstone, and Miss C. M. Knight are nominated for election to the Council.

General Meetings.—Four General Meetings have been held during the past Session.

At the first Meeting, held on November 10th, 1919 Mr. Jay Hambidge made a communication on "Symmetry and Proportion in Greek Architecture." There were, he said, two types of symmetry in Nature which might be serviceable to art: one was observable in the phenomena of leuf distribution, known as phyllotaxis, and in the shell. Because of its character of balance in movement this type had been termed "dymmic." The other type was apparent in crystals, cross-sections of seed-pods, and in natural mosaic forms. Because of certain passive characteristics this type of symmetry had been termed "static." This latter type was that used, consciously or unconsciously, in design. Inasmuch as design was not possible without symmetry, it became necessary to eliminate artistic personality from design and classify such works according to the degree of technical knowledge which we found in them.

When this was done we found that the design of all nations and times fell within the "static" class except two, these two exceptions being Egypt and Greece. The design of these two peoples stood in a class distinct, and the symmetry of their design was overwhelmingly "dynamic." According to Vitruvius, the Roman architectural writer, the Greeks were careful to arrange their designs according to certain principles of symmetry, especially so their temples. They were induced to work out the principles of this symmetry when they found that the members of the human body were commensurate with the whole. Vitruvius describes this symmetry in detail, and furnishes elaborate methods for constructing buildings in the Greek style, using for that purpose certain moduli. He also undertook to reduce the human figure to a similar base. As no Greek building had been found which agreed with the Roman scheme, Vitruvius, to this extent at least, stood discredited. His scheme for the human figure had likewise proved useless.

The use of a modulus in design would automatically produce static symmetry. The Roman writer erred in assuming that "commensurability" meant measurableness of length. The present investigation showed that what was meant was commensurability of area, and consequently volume. When the figure of man, or the plant, or Greek design was measured and interpreted in terms of area, the result was a revelation.

There were three sources for the study of dynamic symmetry, the man and the plant, the five regular solids of geometry, and Greek and Egyptian art, particularly the former. We studied man and the plant to learn how the rhythmic themes of dynamic form were actually used by Nature. The five regular solids of geometry formshed us with the abstract fact of the dynamic system, and from Greek art we saw how these rhythmic themes were actually employed by masters of design. The question of consciousness or unconsciousness of use was, for the moment, unimportant. Had he the power, he would paralyse the working hand of every artist on earth and keep it paralysed until the facts of dynamic symmetry were known.

After observations from the President and Mr. Arthur Smith, it was decided to hold a further meeting at which illustrations of the application of the theories laid down by Mr. Hambidge could be shown and discussed.

An extra Meeting was therefore held on December 16th, 1919, at which Mr. Hambidge delivered his further communication on "Symmetry in Greek Architecture." After observations from Sir Cecil Smith, Mr. Anderson and Mr. Henderson, the thanks of the Meeting were tendered to Mr. Hambidge for his papers.

The third General Meeting was held on February 10th, 1920, when Mr. E. J. Forsdyke read a paper illustrated by lantern slides on "A Mycenaean Head recently acquired by the British Museum," A discussion followed in which Sir Arthur Evans, Mr. A. H. Smith, Mr. H. R. Hall, and Professor E. A. Gardner took part. The paper will be

published in the forthcoming number of the Journal

At the fourth Meeting, held on May 11th, 1920, Mr. Arthur Smith gave an illustrated address on the life of the ancients as illustrated by objects in the British Museum. He dealt with some of the aspects of ancient life illustrated by the recently reorganised." Exhibition of Greek and Roman Life." especially education, household accessories, and trade. He then turned to some of the subjects associated with recent events, such as treaties, corn rations, warships, and trophies of victory. In conclusion, he drew attention to the fragment of the head of Nemesis from Rhammus. According to later Greek legend, the over-confident Persians had brought the block of marble to Marathon to fashion their trophy, and the Greeks shaped it into a figure of Nemesis, the goddess that punishes presumption. Incidentally, several recent additions to the collection were shown on the screen.

Library, Photographic and Lantern Slide Collections.—The Librarian has succeeded in completing most of the sets of foreign periodicals which fell into arrears during the war. These are now being bound and will be available next Session. In addition to these, 389 books and pamphlets have been added to the Library, mostly as the result of gifts. The Council hope to renew the Library Grant in the near future. They regret that owing to the increase in the cost of raw materials and of labour, it has been necessary to increase by 50 per cent the prices of all slides and photographs sold, as from June 1st, 1920. The charge for hire of slides is unaltered—1d. per slide; postage is paid by the hirer.

The subjoined table shows the number of books added to the Joint Library during the past year, the number of visitors to it, and of books borrowed, also the number of slides added, of slides borrowed, and of slides and photographs sold. The corresponding figures for the last normal (pre-war) year are added for comparison, as comparison with the figures for the war-years gives no real conspectus of the use which members make of the material at their disposal. A gratifying feature of the past year's record is the number of slides which have been borrowed for use in schools.

	A. LIBRARY.			B. SLIDES AND PHOTOGRAPHS.				
Siestoki	Acces Sings	Vibiter- to Lilinary.	Books Folson out:	Slides added to Collection.	BISTER	Slides ald in Members	Thomas indd to Member-	
19/3-14	44.2	1,072	1,087	Catalogue of 4,509 Slides	3,740	1,681	439	
1919-20	389	1,364	815	283	3.709	672	110	

It will be seen that though the number of books and slides borrowed during the past year does not equal that for 1913-14, it compares very favourably with it, especially when it is remembered that there was no great revival of activity in lecturing, etc., until last October.

Among the gifts made to the Society, special interest attaches to the books and slides belonging to the late Bishop of Lincoln, presented by

his widow.

The Council acknowledge with thanks books from H.M. Government of India, the Trustees of the British Museum, the Chief Secretary of the Government of Cyprus, the British Academy, the Anglo-Albanian Committee, the Metropolitan Museum of New York, the Executors of the late Miss E. P. Hawes, and the following donors: Mrs. Aldington, Messrs. J. Allan, Andreades, T. Ashby, E. Bell, Blanchet, W. H. Buckler, S. Casson, G. Curle, R. M. Dawkins, Mrs. Guy Dickins, Sir Arthur Evans, Miss Joan Evans, Messrs. G. C. Fiske, P. Foucart, W. S. George, Dr. B. Hang, Professor M. Hammarström, Mr. J. R. Harris, Miss M. A. B. Herford, Mrs. Hicks, Messrs. G. F. Hill, A. L. Humphrys, Miss C. A. Hutton, Rev. H. Gifford Johnson, Miss L. Johnson, Dr. Leaf, Mr. W. A. Lloyd, Mr. G. A. Macmillan, Sir John Marshall, Mr. J. G. Milne, Professor W. A. Oldfather, Messrs, A. S. Pease, A. G. Pearse, J. Penoyre, J. G. Phillips, Professor Rhys Roberts, Mr. F. S. Salisbury, Sir John Sandys, Mr. H. Sumner, Miss Vertue Tebbs, and Professors H. J. W. Tillyard and A. J. Toynbee.

The following publishers have also presented copies of recently published works: Messrs, Alvarez, E. Arnold, G. Bell & Sons, Berger-Levranit, B. H. Blackwell, Fratelli Bocca, Bruckmann, Burns & Oates, Cornish Bros., Jacob Dybwad, The Faith Press, Fontemoing et Cie. Heinemann, Hodder & Stoughton, Holder, Laterza e Figli, Leroux, Longmans, Macmillan, Marcus & Weber, Methuen, Spottiswoode, Ballantyne & Co., and Weidmann, the University Presses of Oxford and Cambridge, California, Chicago, Columbia, S. Dakota, Harvard, St. Joseph (Beyrouth), Princetown, and Virginia.

Mention has already been made of the gift of slides made by Mrs. Hicks Mrs. F. W. Hashuck has also presented various negatives belonging to her husband, who was a constant and generous donor to the Society.

Finance.—The statement of accounts of the ordinary income and expenditure for the year ending December 31st, 1919, shows a deficit of £255. It must be borne in mind however that this deficit is the result of a year's work on very restricted lines. The Journal has been issued in one part only and expenditure in other departments severely limited. To continue on yet more restricted lines would have meant final starvation and the decision of the Council to appeal for funds to enable the work of the Society to be adequately carried on was the only alternative.

Since the accounts were made up further donations have been received to the amount of £104 to the War Emergency Fund (including £100 from Mr. W. H. Buckler) and £18 to the Endowment Fund. The Greek Government has sent a donation of £70 14x, with an intimation of its probable renewal. Members who have promised or paid increased subscriptions provide another £40 and about 45 new subscribing Libraries have been admitted.

For the success achieved the best thanks of the Council are due to the active assistance of those members who have helped so materially in various ways. To carry this success to the point where smooth waters will be reached a continuance of these efforts is argently necessary. The Journal will be issued this year in two parts as normally, and the Society is endeavouring to provide all facilities on the same scale as in pre-war days. Costs have risen so much in all directions, and particularly in the case of printing and paper for the Journal, that every possible effort is necessary to bring the finances of the Society once more to a satisfactory footing.

The President opened the proceedings by drawing attention to the three resolutions on the Agenda paper (see below) and asked the Hon. Treasurer to explain the circumstances under which the Council had taken the unconstitutional step of suspending a Rule without the previous sanction of the Annual Meeting.

Mr. George Macmillan, Hon. Treasurer, detailed the financial position at the end of 1919. The Council had always known that the £2 28. Entrance Fee was a bar to membership and the justification of its suspension was to be found in the 458 new members who had joined since February of this year.

The following Resolutions were then put from the Chair, seconded by the Hon. Treasurer and carried unanimously:

(a) That this Meeting approves and confirms the action of the Council in suspending the Entrance Fee without previous authorisation, as required by Rule 38.

- (b) That the Entrance Fee be suspended until the end of this financial year, Dec. 31st, 1926.
- (c) That the Entrance Fee be £1 1s as from Jan. 1st, rozr, and that the concluding paragraph of Rule 20 be altered as follows: "all members elected on or after January 1st, 1921, shall pay on election an entrance fee of one guinea."

The President then moved the adoption of the Report and Balance Sheet. This was seconded by Dr. Macan, who thought that considering that 458 new members had been elected in five months the Council's references to the abolition of compulsory Greek were unduly gloomy. He himself, having always advocated its abolition, believed that this would give an impetus to its study under different conditions by a different class of student, but with great enthusiasm and enjoyment.

The President announced the re-election of all Vice-Presidents and of Messrs. Anderson, Bell, Bosanquet, Lethaby, Myers, Wace, and Walters, and of Lady Evans, also the election of Messrs. Baynes and Livingstone, and of Miss Knight as Members of Council.

PRESENTATION TO ME. GEORGE MACMILLAN

The President then called on H. E. Monsieur Gennativa to speak in connection with the presentation of an illuminated address to Mr. Macmillan on his retirement from the Hon. Secretaryship after 40 years tenure of office. Monsieur Gennadius, himself an original member of the Society, spoke of the conferences which led to its foundation in 1879, of the high professional standing of its founder-members, and of the work done in spreading knowledge of Hellenic culture in the widest sense of the word. Mr. Macmillan had been the centre of the Society's activities during all the years when it was establishing its position, and it was only right that they should give concrete expression to their feeling for him. In accordance with classical precedent they had voted him a psephisma.

Dr. Leaf spoke of his pleasure in being associated with this presentation to Mr. Macmillan. Their friendship had begun from an invitation to complete a school-edition of two books of the Iliad, and had been a source of infinite pleasure to him. He then read the address as follows:—*

To our friend, GEORGE MACMILLAN.

We the friends and colleagues who have been associated with you in past years in the work of the Society for the Promotion of Hellenic Studies, desire to offer you our heartfelt thanks for the services you have rendered during the forty years through which you held the post of Honorary Secretary of the Society.

The English text was drafted by Dr. Leaf, the Greek decree written by Mr. M. N. Tod. The address was transcribed by Mr. Graily Hewitt and bound by Mesers, Rivine, It was signed by the President, Vice-Presidents, surviving Original Members, Council, and Officials.

You were one of its founders and original members and in all its varied activities you have been the never-failing counsellor, giving angradgingly of the scanty leisure which falls to the lot of a successful business man.

We wish to express our regard for your high qualities, your capacity for administration, your devotion to high ideals of learning, your untiring industry, and, above all, your genial tast and consideration for the colleagues who have been happy to accept your advice and guidance in many difficulties. We assure you that we all look back upon our common work with thoughts in which affection for yourself is blended with deep respect.

Had we been actually citizens of one of those radiant Hellenic states, whose spirit we, as Hellenists and members of the Hellenic Society, strive to emulate as far as may be in a very different age, we should doubtless have voted you a crown of gold. Will you, instead, accept this, our written tribute of gratitude, goodwill and affection?

BASIAEYONTOSFERPFIOYETOYEENAEKA TOYEAGETAIKOINAITANPERITAEAAHNI KAEPOYDAETONENNOMAIAIEYNOZOL EMEIANTEMPTIOEAAETANAPOYANHPATA **ΘΟΣΩΝΔΙΑΤΕΛΕΙΡΕΡΙΤΟΚΟΙΝΟΝΚΑΙΕΝ** PASITOISKAIPOISXPEIASPAPEXETAIKAI KOINHITOIDIAEOIKAIIDIAITOIEENTYFXA NOYEINAYTOITONDIAEOTONTHNPAEAN EPOYAHNKAIEYNCIANENAEIKNYMENOE KAIFPAMMATEYEXEIPOTONHOEIEKAADE KAI DIAOTIM OETHNAP XHNHPE AET ON KAIPPATTONAEITABEATIETAKAITONAA YOTYASSOLEAHOHASMOTARTANA KAITOYOIAEOYEPOYAHEKAIPPOOYMIAE OYAENEANEIPONOPOSANOYNOIDIASO TAIDAINONTAITAEAEIAETIMAEAPODIDON TEETOIREIZEAYTOYEOIAOTIMOYMENOIS AFAOHITYXHIAEAOXGAIT.DIKOINDIEPAL NEEAIFEDPFIONALEEANDPOYAPETHERAL KAAOKAFADIAEENEKATHEEISTOKOINON TONOIAEOTONTONAEFPAMMATEAPAAA BONTATO THOIS MATO DEANAPPATAILEETA AHMORIAKAI ALA OYAA EE INMETATONAA ADNEPAMMATON

Mr. Macmillan in returning thanks referred to the pleasure it gave him that the two old friends who had been intimately associated with the early days of the Society, were also associated with this presentation; to their names he must add a third, that of Professor Sayce, to whose help the successful launching of the Society in 1870 was largely due. He felt quite unable to express adequately to the Society and to the speakers, his thanks for the very kind things said to him, which would be a pleasant memory for the rest of his life. The address would be treasured by him and by those who came after him.

A vote of thanks to the Hon, Auditors, Messrs, Cecil Clay and W. E. F. Macmillan, was proposed by Mr. Hayter and seconded by Miss K. Raleigh.

The President then delivered the following address on "The Outlook for Greek Studies,"

The first words that I should wish to say in a Presidential address to the Society are to thank you for the great honour which you did me when you elected me to this post. To stand next in succession after the names of Lightfoot, Newton (who, though he refused the titular office, was practically President during the early years of the Society), Jebb, Cardner, Evans, Leaf, is indeed to hold a conspicuous and honourable position among the classical scholars of the country, and I wish I could think myself worthy of it. No Hellenist will forget the warning to call no man happy—till his death; but at least I can say that hitherto I have been fortunate, more fortunate than I have deserved, in the kindness that has been shown me by my superiors and by those with whom I have been associated in my work. And not least by this Society. The first distinction I received after entering on my profession at the Museum was the invitation to become a member of the Council of the Society. I have had the honour of being our of the Editors of the Journal for several years, and subsequently a Vice-President; and if during the last five or six years other duties; particularly those arising out of the war, have kept me from taking in active part in the Society's work, you have shown that you condoued an absence, which was in no very due to indifference, by the crowning honour which you have conferred upon me

I have enumerated this carsas konorum, not, I hope, out of vanity, but because I am proud of them, and because I am grateful to you for them. I recognise that gratifude is best shown by embayouring to justify your choics, and I hope I may be able during these next few years to place myself at the disposal of the Society, so far as I can be of service. They are likely, as I shall have occasion to say more at length in a moment, to be pears of critical importance to if ellenic studies; and the cause for which this Society exists will have need of all the service which any of us can offer to it.

The events of the past year have been caronicled in the Report which has been laid before you. There are only two or three points in it on which I should wish to say a word. Of one here will be an opportunity of taying amorthing at a later stage in this afternoon's proceedings. The second is the filness of our Librarian. Mr. Penoyre If a has broken himself down in our service, in a beroic affort to re-establish the immunial position of the Society. He has made success certain in recruiting the 500 new members whom he set bimself to collect; but at this toyal and devoted service is to maintain and continue his work, and by obtaining yet none members to assure the triumph over dimoulties which he has made possible.

The third event to which I wish to refer is the death of Dr. Ronald Burrows

In him, not only has modern Greece lost perhaps the best and most active of her frames in hingland, but education generally, and Hellenic studies in particular, have lost one of their most vigorous champions. Farrows radiated energy whenever he went and whatever he did, and to lose him in the fulness of his powers, and when his influence was yearly becoming greater and more recognised, is indeed a tragedy. But it is not merely as a personal tribute that I have wished to make this reference to our loss. It is because the qualities which were so conspicuous in him, the qualities of talib, energy and enthusiasm, are the qualities of which we have special need to-day: faith in a cause and in high ideals, energy to work for them, and enthusiasm to infect others with like faith and like energy.

Faith, energy, onthusiasm. those are the key-words of what I want to say this afternoon.

During the past year the outstanding event for those who are interested in Hellenic studies has not been any discovery in archaeology or literature, but the change that has come over the whole position of those studies through legislation at Oxford and Cambridge. The words "compulsory Greek" can now be attered by a President without threatening the disruption of the Society. It matters not now whather we supported or opposed the state of things described in those terms. "Compulsory Greek," for better or for worse, has disappeared, and we have to take stock of the resultant situation. The privileged position which Greek formerly shared with mathematics is abolished. There is now much compulsory science and compulsory mathematics in the country but no compulsory Greek, and the question for Hellenists pow is, what will the effect be, and what have we to do meet the new situation.

In the first place, it is no time for despair. It has recently been my duty to visit most of the universities of Great Britain and in connection with the Classical Association I may been brought into communication with many of those who are traching Greek in the secondary schools of England; and one of the clearest largressions I have received is of the viguus and entimalism with which Greek is being taught and learnt at the present day. Never was there a more keen appreciation of the value of Greek-of its beauty in itself and of its importance as an element in the intellectual life of the country . If I thought that Greek was destined to disappear, it I thought that we in this Society were dramed to become a dwindling remnant of adherents to a lost cause, then I should indeed lose faith, not in Greek but in our country. If we were to lose Greek, if Greek were to cease to be a widely diffused element in our intellectual culture and to become merely a study for specialists, then I am sure that our culture would lade, as a plant fades when it is severed from its roots, and we should have to wait for some new Renaissance, which would restore its vitality by once more bringing it into living connection with the most vital and stimulating source of energy that manking has yet produced. But we are far from being obliged to face so gloomy a prospect. Greek is as vigorousto-day as it has ever been. Only we have to remember, in this connection as in others, one of the greatest lessons of the war; that faith in an ideal is the sures; pleage of altimate victory

Greek is no longer in a privileged position. But, by compensation, it has acquired a claim on support and sympathy, which it is our duty to press. We can claim as allies those who formerly were rivals or even enemies. In all the controversies which have raged round compulsory Greek, in all the more friendly discussions which have fortunately characterised these more recent years, the value of Greek as an element of culture and education has been freely admitted by the advocates of other subjects. From the friends of history, of science, of English, of modern languages, of mathematics, we can quote compliance and angradging issummy to the position of Greek as a vital and fundamental element in our civilisation, and as an incomparable instrument of education for those who are

qualified to profit by it. We have a right to appeal to that testimony now. We have a right to claim that those who recognise this value shall not deprive the country of it, or debar those who might benefit by it from receiving that benefit. We are unmissied now. It is our duty to be vocal in the claims of Greek, and, while not denying or minimising the claims of other subjects to see that the republic takes no harm through any lukewarmness or deholemay in advocacy on our part.

And first we have to demand equality of opportunity. If there is to be an compulsory Greek, there must be no compulsory ignorance of Greek. We have a right to ask the Minister of Education, who is our friend, for a fulfilment of his promise that, so far his influence extends, there shall be opportunities for learning Greek in every educational area in the country, so that no boy or girl who has gifts in this direction shall be denied the possibility of developing them. We have a right to ask him, further, that nothing shall be done to bribe boys or girls away from the study of Greek by offering righer bribes or greater facilities for other subjects. We might to further, and say that the State should, in its own luterest, take stops to safeguard a subject, the importance of which is admitted by all competent judges; but which lacks the popular appeal of subjects that offer a more direct and obvious material return. But we need not go so far as that. It

is not favour that we need ask for, but a falr field.

I might develop this point at length. Those who are concorned with the practice or education know the special points which I have in mind, and the particular problems with which our schools are faced. But the purely educational aspect of Greek studies is rather the affair of the Classical Association than of ourselves. But there is another daily, another opportunity of serving the cause, which comes well within our functions. It is that of preaching everywhere the value of Greek. We have to comind those who have forgotten it, to inform those who never realised it, that Greek literature. Greek thought, Greek art are hone of our hone and flesh of our flesh; that English literature and English thought and English art not only open out of Greek, but are unintelligible without a knowledge of their Greek ancestors; that Greek is not a dead language but a living one; that Greek thought is searer to us than most mediaeval thought, and far more closely akin than the thought of any other nation, except [in certain respects] Rome. We ought to make people feel ashamed that they do not know Greek. If there is to be teaching of English of history, of philosophy, of modern literature without a knowledge of Greek people should be made to resilse that it is an inferior leaching, and that the results will be interior; that though a knowledge of English literature in itself is good, a knowledge of English literature with an appreciation of all the militence that Greek has brought to bear on it is better; that though a knowledge of modern history is good, and even essential for a properly equipped citizen, a knowledge of the Greek solutions, or attempted solutions, of problems closely skin to the political and social problems of to-day will make it better; that though modern art must be modern and not an imitation of ancient art, art which cuts itself adrift from its foundations a unstable art and will not excel. We have many friends among the teachers and students of these subjects, who know that their own knowledge and fraining are founded in Greek. We must ask them to help, and in helping us to halp themselves.

In particular, we shall do well to press that feathers of these subjects which are, instorically, rooted and grounded in Greek shall themselves be acquainted with Greek, although they do not teach it directly. In Scotland there is a most salutary provision of the Board of Education that no one shall teach Latin who has not qualified in Greek. The same rule should apply in England; and it would only be to the advantage of English studies, of modern languages, and of history, if analogous regulations were made in the case of these subjects. We cannot, of course insist on this, but we can ask our friends whether they can really maintain

that a knowledge of Creek is not necessary for the best knowledge and the best teaching of their subjects; and, if they admit that it is what are they going to do about it?

There is yel unother point that is worth making the sympathy and assistance which we may expect from the working classes. If anything will induce the average politician to take an interest in education or in intellectual culture in general, it will be the discovery that the working classes are asking for it; and of this there are encouraging signs. It is no doubt, too much at present to expect that any large number of working class men or women will be demanding to learn the Grook language; but it is certain that an increasing number of them are showing curiosity about Greek culture, and are anxious to learn what there is in Greek thought and Greek literature. That is a demand which at any rate will not countenance an attack on Greek, and which may easily grow into a demand that Greek, and the classics generally, shall not be regarded as a preserve of the privileged classes, but shall be made accessible to the son of the working man as much as to the son of the peer. When that demand becomes effective, then the politician will sit up and take notice. Meanwhile, we can do our best to encourage it, first by supporting such institutions as the Workers' Educational Association and the Central Library for Students, which aim at putting the best information and the best books within the reach of the working man, and secondly, by doing what we can to popularise a knowledge of Greek thought, Greek history, and Greek literature, in order to stimulate the curiosity out of which the demand for a knowledge of the language. will came. This latter form of activity is applicable not only to the working classes. in the ordinary use of the term, but also generally to all classes that do not know. Greek. The influences of Greek can, and must, be spread abroad among those who cannot read the language. Its vivilving ferment will do its work there, and will create the desire to learn Greek among many who might otherwise never have thought of It;

All this is propaganda; and propagamla is necessary in these critical days. But propaganda is not the main purpose of our Society, nor the only way in which Hallenic studies can be promoted. We have also to push forward and developthose studies themselves. We have to show that these studies are alive and that they have real work to do. And here again, there is no cause for despondency, The lorty years during which our Society has existed have amply demonstrated the vitality of Hellenic studies. First archaeology, then papyrology, and now both together have widened and deepened our knowledge of Greek culture; and along with them has gone a fresher and perhaps a water appreciation of Greek literature, Nor does either subject show the least sign of being exhausted. Prof. Grenfell has recently assured as that much of the contents of the Oxyrhynchus rubbishheaps still remains to be investigated, and has promised a volume of literary fragments for the next number of that invaluable series. Among them will be portions of Sapple and Alexens and new fragments of Pindar and Callimachus; an unidentified historian of Alaxander; besides important theological texts and portions ut excent classics.

Perhaps it is not too late to call attention also to Vol. XIII. of this series published in the spring of toro, which contained some one fragments of the Dithyraints of Pindar, and partions of a roll which once contained certainly four, and possibly six, of the lost orations of Lysias, including three almost complete columns from the end of the speech against Hippotherses. A defence of Lycophron, parliags by Hyperides, a dialogue of Asschinos Socraticis on Alcibudes, and a history of the Pentakontaetia are also represented, the latter bong almost certainly the work of Ephorus, and valuable both as showing how closely Diodorm followed his master, and as supporting the attribution of the well-known Hellows Oxyphysiches to the same author.

Some other interesting texts from papyri have appeared in the Situageberichie of the Berlin Academy under the editorship of Wilanawitz Hiller von Genetringen and Schubart. The most attractive is a fragment of Tyrtaeus, the most novel a treatise on music, with examples in musical notation. But for these, and for a very hill bibliography of recent papyrological publications in general, I would refer you to the excellent article by Mr. Litis Bell in the Journal of Egyption Archaeology.

for last April (Vol. VI., Pt. 2).

Archaeology also is beginning to raise its head again, now that the explorers are returning from their excursions into espinnage, cattle-tilling, railway cutting, and other similar parasitis. for which the professional replayers showed a natural aptitude when the occasion came. Greek explorers have been at work again in Crete, at Eleusis, Epidaurus, Oropus, and Alysia in Epirus. So far as can be gathered from the reports which I have seen, a large tranh of a somewhat novel kind at the latter site, and an in-cription of the Achaean League at Epidaurus appear to be the most important single from that have been brought to light. Meanwhile the Greek archaeologists have lost no time in getting to work at Smyrna and even in Constantinople; and the French have illewise been showing an active interest in the latter place. On the other hand, it is regrettable to have to record that the last act of the departing Turkish soldiers as they left Sardis was to the wanton damage to the sculptures excavated by the American expedition. Details of the extent of the damage have not yet reached me—but the fact has been entered up at the Foreign Office in the reckoning against the Turk.

For Great Britain there is planty of work to do. We have to get our Schools at Athens and Rome going again; to supply them both with students and with funds. The main new developments arising out of the war, however, lie for us rather intaile the Greek field, in Palestine and in Mesopotamia. In Mesopotamia and also at Carchenish work has been resumed, without too close a consideration for the strict political proprieties, but with interesting and important results; and it Palestine a new British School has been founded, and is already getting to work in comperation with the Palestine Exploration Fund. If the ingenious diplomacy of M. Venizelos fructibes, the blight which has rested on Cyprus by reason of an unintelligent law of antiquities may perhaps be removed; but not before much

irreparable mischiet has been dime.

In this connection, however, I wish to refer briefly to a topic which is of some importance to us, as well as to other kindred Societies. I mean the organisation of archaeological research in the East generally. The break-up of the Turkish Empire has released some of the most important areas for such research which exist in the world, and has made various European (I wish one could add, and American) Covernments responsible for their administration. It is quite clear that each such Government will be expected without delay to make adequate provision for the resumption of arthopological investigations; and it will readily be understood that this gives as an unequalled opportunity for sudmivouring to put insearch in the Near and Maldle East on a satisfactory looting. At present there is great diversity in the laws of autiquaties in force in different countries; and there is a great want of appreciation on the part of Government officials of the needs of archaeology, and of common sense in the organisation of it. Laws of antiquities framed in some, without practical knowledge of the subject, and under mistakes afers of local patriotism or the protection of local interests, only injure the advance of knowledge without is any degree advancing the interests of the country in question_

For this reason, as many here present are aware, our Society has joined with all the other principal Societies in England which are interested in archaeology to form a Joint Archaeological Committee to deal with this and other subjects. The Committee was formed on the express invitation of the Foreign Office, the British Academy, in pursuance of its natural function as a sort of co-ordinating machinery for the more specialised Societies, acting as the channel of communication. It has already been in correspondence with the Foreign and India Offices on the subject of archaeology in Mesopotamia, Palestine, and Egypt, and with the British representatives at the Paris Conference on the provision to be made for the control of antiquities in the countries recently separated from the Turkish Empire, and in what remains of the Turkish Empire itself. The machinery thus exists for giving affect to expert archaeological knowledge in the establishment of administrations of antiquities in these countries. What is still needed is that we should establish a full understanding with foreign scholars on the subject, and that the respective Governments should pay attention to the advice which we are in a position to give

So far as foreign scholars are concerned. I do not think there will be any scrope difficulty. I have attended two meetings of the newly founded Union Académique Internationale, at one of which the subject was formally though briefly, discussed, while at the other it was mentioned informally. It was quite clear that the French, in particular, were ready and anxious to enter into an arrangement for full reciprocity of facilities, and there were indications that if the politicians did not oppose obstacles, the arrangement might be extended to include Persia, where France has, by an old oncession, a monopoly of archaeological rights. The representatives of Greece and Italy made reservations with regard to areas which may be ceded in full ownership, and which naturally will come under the same laws as those in force in the motheriand itself; but with regard to mandatory areas, so difficulty was made. By the next meeting of the Caton the time may be ripe for a formal declaration of international agreement on this important subject.

The principles of such an agreement are simple, and to an archaeologist obvious. Briefly they are these (a) equal facilities for all nations which themselves grant equal facilities; (a) limitation of the right of excavation to qualified explorers; (b) a fair division of the proceeds of excavation between the explorer and the country of origin; (b) encouragement to natives to report finds. In place of punishment; (c) publication of results within a reasonable time. If this regime can be applied, and honestly administered, in districts of such importance as Egypt, Palestine, Syria, Asia Minor, Mesopotamia, and Persia, then the golden age of archaeology should have dawned, and it will only remain for us to show ourselves worthy of the appartunities thus effered for our utilisation.

In this connection I may be permitted to call attention to the little pocket-book of archaeological information and advice which has been projected by the Joint Archaeological Committee, executed by a number of experts under the editorship of Mr. G. F. Hill, and published by the Trustees of the British Museum It is entitled. "How to Observe in Archaeology," and contains much condensed information on archaeological method in general, and on the archaeological characteristics of the various countries of the Near and Middle East. It is not intended for experts, but for the untrained traveller who is interested in archaeology; and it may also be found of value by those who study the results of excavation as they appear in museums. An appendix gives a sammary of the principal laws of antiquities, and a statement of the principles advocated by the Joint Committee.

The theme of this address has been propaganda. It is a word of questionable associations, and perhaps suggests subterranean endeavours, toged with dishonesty to force or pairs statements on a credulous and unsuspicious public. That, however, to my mind is not only had morals, but had propaganda. The true propaganda, as we learnt during the late war, is to have a good cause, and to let it have a chance of being heard. We have a good cause and may feel confident of its triumph if it has had play. The responsibility rests upon us for its presentation. And here the point which I wish to make is that much depends on the manner in which we

present our case. We claim that the highest kind of education, the linest form of intellectual culture, is that which is based upon Greek literature and Greek thought. Does not the responsibility then rest on us to show that it is so by our own handling of the questions, the controversies if you will, which attend these educational assues? The Greek-trained student must also w Hallenic qualities of mind.

What does this involve? In the first place it involves an absence of narrowness or exclusiveness. If there is one mental quality more characteristically Hellenic than another, it is a wide receptivity, a mental also ness and curiosity, a thirst for new knowledge; a spirit of free impury. Therefore our advocacy of Greek studies must not be exclusive. Hippocrates and the lonian philosophers would have repudiated intellectual kimbip with those who decried the value of natural science, and Throydides and Aristotle would assuredly have had no doubts as to the value of history. The Helienically-minded man will welcome the advance of editication in wience, in mathematics, in history and in languages; and we may be quite sure that an ample recognition of the claims of these subjects will meet with a generous response. There have been narrow-minded advocates of natural science; I fear there have sometimes been narrow-minded advocates of classics. On the other hand, many of the most striking testimonies to the value of Greek have been uttered by the adherents of other subjects. Our duty and our interest alike are to join hands with the friends of invallectual culture, whatever may be the particular portion of that wide field which they cultivate. The good is one, The several facers make up the one diamend.

This is not a case in which it can be said. Your strength is to sit still. Our strength is to go forward; to go forward in the Hellenic spirit of free research, with a wide appreciation of the multifaring character of knowledge, and with the fullest sympathy for the interests of various types of mind. We have to show that a culture based upon Hellenism is more comprehensive, more generous, more tolerant more easer for the truth, than any other; that narrow mindedness, exclusiveness, jealousy are up-Hellenic. We have to convince the world that Greek is the mexhaustible well-spring of intellectual life.

That is the task which lies before our Society. That is the spirit in which, i

trust, we shall mee it in the years which lie before us.

A vote of thanks to the President for his interesting address, moved by Professor Ernest Gardner and seconded by Mr. Macmillan, was carried unanimously.

217 10 5 10 8ades, including back Vals 6 7 9 10 10 10 10 10 10 10	DE 'JOURNAL OF HELDENIC STUDIES' ACCOUNT.	FROM JANUARY 1, 1910, TO DECEMBER 31, 1919	ð
ANTERN SLIDES AND PROTOGRAPHS ACCOUNT. Frow JANUARY 1, 1019, 10 DECEMBER 31, 1019. Application	XXXX	28 to 8 18 7 6 18 7 6 10 Fapeniittor Account	* * 0 5
LIBRARY ACCOUNT. Prov. JANUARY 1, 1919, 70 DECEMBER 31, 1919, 30 Library Account. Prov. JANUARY 1, 1919, 70 DECEMBER 31, 1919, 32, 1919, 32, 1919, 34, 34, 34, 34, 34, 34, 34, 34, 34, 34	LANTHEN SLIDES AND PROTOGRAPHS ACCOUNTS	No. of the state o	10 A
LIBRARY ACCOUNT. PRON JANUARY 1, 1979, TO DECEMBER 31, 1910; 11 3 2 By Received for Sales of Catalogues, Dupficates, No. 4 14 12 0 Balanne to Decount and Expendibute Account 31 235 13 = 242	To Stides and Photographs for Safe 35 44 4 Stides for The 5 10 4 Philiographs for Relicence Collection 50 1	By Recentite from Sales and Three in Sales of Chickogens in Sale of Chickogens in Sale of Chickogens in Sale of Chickogens in Sales of Ch	2 M M E
LIBRARY ACCOUNT. PROM JANUARY 1, 1919, TO DECEMBER 31, 1010. 17 3 4 By Breefred for Sales of Catalogues, Dunitestes, No. 14 12 0 Belanne to Income and Expenditure Ascentist.	742 011	242	2 6
14 12 o is Balanne to Income and Expenditure Account		N. 1, 1919, TO DECEMBER 31, 1919.	
-	The second secon	4 - =	5 % E
			189

			li				
		0 0 0 0 0	000	M	1	9 200	191
		2 · 2 · 0	0.000	9		AF THE	10
-4	20.	845 8 8	8-8	85.5		3 44 8	£1003
* 00	00		0.0	Fig.	1	7 11	.50
. 40	56 19		30				
4 95	8.5		3,2			= 3	
By Members Subscraptions— Arrate 1919 reserve	Members Entrance Fees Librarie Sobretigions Arrents 1919	Dividends on feverational Dividends on feverational Contributed towards Rest by British School in Athena and British School at Rome for use of Society's risin. Sent of soons occupied by the Royal Archaeolog. End Intelnation	Ronam Staffer— Kent. Use of Library Sale of Exchyntons at Phylalogic Balance to War Eubergency Fund		MCV FUND	Hy Pannition 10 - 1904 for \$15,1909 set 1-fore the appeal was been a Manher of the Society) at appeal Clay & Some Lad. Means Carbing, Prod. Lad. Means Zahinoff Sir Badi, G. B. F.	
0 5 50g 0 0 0ft	9	24 PS 00 00 00 83	20 to	\$7389 FB 8	WAR EMERCIENCY FUND	255 % E	£1007 3 a
To Rent Salaries Albanian and Secretary	Typisi, &c.	Statistics Folgring Rates List of Members, Notley, Folgring Rates List of Members, Notley, & Grante, Listing And Cleaning Library Premise Grants. Grants. Irritish School at Arbens	Balance from Labracy Astromates Endies Account Account and Labracy Endors Studies Account Account Depresent to Stocks of publications			To Relative from Income and Kapualikus Account	

		-111			
	T 2		9 6 9	9 g	150
		1500			E-SI
). 1	30,00	4	. I	01 E 13 19
	e 5	= 6			-
4 5 2 5	25.0	100.00			
2:	Fr. 15	1 3 3			
Ny Cach in Haint—Units Amintan Transper (10)	, freetment (Lie Compositions)	Zeri Reserved against Heyrecistion	Kniengeury Fund Total Expended Valuations of Specia of Publications	Experiment Strates carried toward	
Calbelia Payahle 613 4 3 3 10 0 4 5 1 5 10 0 10 10 10 10 10 10 10 10 10 10 10 1	Lancon Adam Farrar and Eroc trust the late Roy. II. P. Tozer. Satergency Found - Library Fittings and Furnitione i 594-18. 6. Life Communication and Envisa		contraction to investire and Expenditure Act 1025 to contractional dependent of the contraction of the contr	And Ralesce iven Wat Livergony Fault. 757 to 6 Suplin Balance at December 31, 1919.	4 Ke Egrey's

Examined and fraint correct.
(Signed) C. E. Glav.
W. E. F. Machillan.

SEVENTEENTH LIST OF BOOKS AND PAMPHLETS

appen to rice

LIBRARY OF THE SOCIETY

SINCE THE PUBLICATION OF THE CATALOGUE.

1919 - 1920

With this list are encorparated backs belonging to the Society for the Promotion of Rimon Studies. These are distinguished by u.s.

NOTE.—The Original Catalogue published in 1903, with all the supplements appended, can be purchased by members and subscribing libraries at 5/ (by post 6/). Applications should be made to the Librarian, 19. Bloomsbury Square, W.C. 1.

Abbott (G. F.) Under the Turk in Constantinople: a record of Sir John Finch's embassy, 1674-1681. Svo. 1920.

Achilles Tatius. Chrophon and Leucoppe. With an English translation by S. Gaselee. [Leon Chas. Lib.] 8vo. 1917.

Aclius Aristides. See Waddington (W. H.)

Aeschines. The Speedus of Aeschines. With an English translation by C. D. Adams. [Loch Class. Lib.]

Svo. 1949.

Asschylus. The Promethous Bound of Asschylus represented in English and explained by E. G. Harman. 8vo. 1920.

Allen (J. T.) The Greek theater of the fifth century before Christ.
[Univ. of Cal. Publ. in Class. Bhilel. Vol. 7.]

Ava. Berkeley, Ca. 1919.

Amherst Papyri. See Greafell (B.P.) and Huni (A.S.).

Anthology. The Greek Anthology. With an English translations by W. R. Paton. 5 vols. [Loch Class. Lib.]

Svo. 1916

Antoniades (E. M.) Kappeares vos Apies Ladios. 3 vols.

4to. Athens 1907-09.

ΑΡΧΑΙΟΛΟΓΙΚΗ ΝΟΜΟΘΕΣΙΑ. Οι Ιχθύονται νόμοι τερί δρχαιοτήτων. 8vo. Athens. 1918.

Archestratus. See Corposculum poesis Graecae ludibandas

Aristophanes. The Bards of Aristophanes considered in relation to Athenian politics. By E. G. Harman. Svo. Aristotle. Aristotelis Meteorologicorum linci quattuor. Ed. by F. H. Folias. byo Cambridge Mass 1918 a.a. Ashby (T.) Un altra pianta di Rome di G. B. Falda. [Rend. d. R. Vee d Lines, 277 Svo: Rome. 1018 * Ausonius (D. M.) Works. With an English translation by H. G. Evelyn White, Vol I. [Loob Class, Lib.] Sivo: 1919. Autran (C.) Phoniciene : essai de contribution à Phistoire antique de la Mediterrance. (Fol: Pans: 1920) Ayrton (E. R.) Abydes, III. See Egypt Exploration Society. Margour 25, Banerjee (G. N.) Helleniam in Ancient Tudia. 2nd edition; Svo. Calentia: 1920; Barry (W.) The Turks, Cardinal Newman, and the Council of Ten-5vo: 1919; Bauer (A.) Vom Judentum ann Christentum. [Wissenschaft und Bildung, No. 142 Syo, Leipsic, 1917, Bauer (G.) Die Heidelberger Epitone. Eine Quelle zur Diachenen genelichte. Svo. Leipsic, 1914; Beaufort (E. A.) Egyptian sepalehres and Syrian shrines, inoluding some stay in the Lebanon, at Palmyre, and in Western Turkey, 2 vols Svo. 1861. Beazley (J. D.) The Lewes House collection of annient genue, 4to, Oxford, 1920; Bell (E.) Hellenie Architecture its genesis and growth, Svo. 1920. Bellows (J.) Dictionary of French and English, English and French. 3rd ed. Sco. 1918. Beloch (K. J.) Grienhische Geschichte Ind ed. 2 vols, 1 pts. evo. Strassburg. 1902-16. Benndorf (0.) | Four reports on the Austrian excavations at Ephone: from the Aug. d. k. Akad. d. Wissenschaften.) Sec. Vienna. 1897-1902. Bennett (C. E.) Translatur See Horare Bidwell (C. T.) The Balmaric Labourie Sva. 1876. Bignone (E.) Translator. Son Epicupus Billings (T. H.) The Platonism of Philo Judaeus. Svo, Chienge, 1919. Blackman (A. M.) The rock tombs of Meir, I. See Egypt, Archaeological Survey, Memoir 22. as Blanchet (A.). Le rôle historique des enceuntes Romaines des villes Françaises. [La vie urbalne, 1919]

Blinkenberg (C.) Die Lindische Tempelehrenik. Sva. Bonn, 1915. u.z = the property of the Rooms Society

Svii Paris 1919

Bluemner (H.) Fostgabe Hugo Bluemner, übermieht zom 9 August, 1914, von Freunden und Schnlern. Svo. Zurich. 1914.

s.a. Boak (A. E. R.) The Master of the Offices in the later Roman and Byzantine Empires. [Univ. of Michigan Studies, Humanistic Series, vol. xiv.] 4to. New York. N.D.

E.S. Boethius (A. M. S.) Theological Tractates. With an English translation by H. F. Stewart and E. K. Rand. Consolations of Philosophy. With the English translatof L.T. (1600), revised by H. F. Stewart, [Look Class, Lib.]
Syo. 1918.

Bond (F. B.) Son Len (T. S.)

Boni (G.) Un spilego.

Boudreaux (P.) Le texte d'Aristophane et ses Commentateurs.

Revised after the author's death by G. Meautis. [Bildiles Écoles Françaises d'Athènes et de Rome. No. 140.]

8vo. Paris. 1919.

Brandt (P.) Editor. See Corporculum poesis Graecae Indibundae. British Museum.

Department of Coins and Medals:

A guide to the principal gold and silver coins of the
Ancients, By B, V, Head, In 6 parts;

5vo. 1881-2.

Department of Greek and Roman Antiquities.

A guide to the Exhibition illustrating Greek and Roman life. 2nd ed. 8vo. 1920.

Id. Another copy.

How to observe in archaeology; avo. 1920,

British School of Archaeology in Egypt.

12th year. Hyknes and Israelite cities. By W. M. Flinders Petric and J. G. Donesa. 4to, 1906.
 13th year. Gizsh and Rifah. By W. M. Flinders Petric.

14th year. Memphis. I. By W. M. Flinders Petric and J. H. Walker. 4to, 1908.

15th year, Memphia, II (The Palues of Apries.) By W. M Flinders Petric and J. H. Walker.

16th year. Meydom and Memphis, 111. By W. M. Flinders Petric, E. Mackey, and G. Wainwright,

17th year, Roman portraits and Memphis, IV. B: W. M. Finniers Petris. 430 1941

18th year. Tarkhan, L. and Memphis, V. By W. M. Flimlers Petrie, G. A. Wainwright, and A. H. Gardiner. 409, 1915.

8.8. Sthe property of the Ruman Scholy.

Studies, Vol. II. Historical Studies. By E. B. Knobel, W. W. Midgley, J. G. Milne, M. A. Murray, and W. M. Flinders Petrie. 480, 1911.

Brownson (C. L.) Translator. See Xenophon,

as Bruce (J. C.) The Roman Wall: a description of the normal barrier of the north of England. 3rd st. 11a. 1867.

Bryce (J.) Presidential Address to the British Academy, 1916. (Proceed of Brit. Acad., Vol. VII.) 8vo. 1916.

Brydone (P.) A tour through Sicily and Malta in a series of letters to William Beckford Esque. 2 vols. 3rd ed.

8vo 1774.

Burmann (P.) Editor, See Planedrus,

Burn (R.) Roman Literature in relation to Roman Art.

Avo [KRY

Busse (A.) Sokrates | Die grossen Erzieher, ihre Personlichkeit und live Systeme, Bd. VII. | Syst. Berlin. 1914.

Butler (H. C.) See Princeton archaeological expeditions to Syris.

Butler (H. E.) Editor Ses Virgil

Butterworth (G. W.) Translator. See Clement of Alexandria.

as Byrne (A. H.) Titus Pomponius Attimus : chapters of a biography.

Svo. Bryniuswr (Ponn.). 1920.

Bywater (I.) . Four conturies of Greek harning in England.

Sva Oxford 1919.

Es. Caesar (C. Julius) The Civil Wars. With an English translation by A. G. Peckett: [Leeb Class. Lib.] 8vo. 1914.

by H. J. Edwards. [Loch Class. Lib.] Svo. 1919.

** Cagnat (R.) Le régionent du collège des Tubicines de la légion 111 Augusta. [Bull. archi du Comité des Travaux Hist 1907, pp. 183.] Syn. Paris. 1907.

Cairo: Supplementary Fublications of the Service des Antiquités de l'Egypte.

Les temples immergés de la Nubie. Vol. L. Pt. 2.

Foli Chilip:

Caldwell (W. E.) Hellenic conceptions of peace: [Studies in History, etc., Columbia Univ., vol. 84, 2 [195]].

Syn: New York, 1019

Canter (H. V.) See Seneca:

*** [Capo (T.)] Catalogo delle monete greche, romane, primitive, considari, imperalli, italiane medievali, moderne possedute dal Dota.
Tommuso Capo.
8vo. Bonn.
1891.

Carcopine (J.) La loi de Hieron et les Romains,

8vo. Paris. 1919

Carcopino (J.) Virgile et les origines d'Ostie. [Bibl. des Écoles-Françaises d'Athènes et de Rome. No. 116.]

8vo. Paris, 1919.

Carlisle. A catalogue of the Roman inscribed and sculptured stones in the museum Tullie House. By F. Haverfield,

> Svo_ 1899

Cary (E.) Translator Sen Dio Cassius,

Casson (S.) Hellenie Studies.

PAND. 1920.

Celsus. Celsus Wahres Wort Aciteste Streitschrift antiker Weltanschauung gegen das Christenthum von Jahr 178 A.D. Edited and translated by Th. Keim-

Sva. Zarich, 1875.

Chalandon (F.) Jean II. Commine (1118-1143) of Manuel 1. Comnène (1143-1180), Les Comnène études sur l'Empire Byzantin au XI, et au XII, sieches, II.

Svo. Paris 1912.

Cholmeley (R. J.) Editor, See Theorritus, Chrussachi (M. G.) See Milla (J. Saxon).

w.s. Cicero (M. T.) De fimbus bonorum et malerum. With an English translation by H. Rackham. [Loob Class. Lib.]

Svo: 1914.

s.s. Cicero (M. T.) Do Officia. With an English translation by W. Miller Loub Class, Lib. Syo. 1911.

Classical Association. Report of Greek Chrylenham Committee ico. 1919.

Clemen (C.) Die Griechischen u. Lateinischen Nuchrichten unber die Persische Religion. [Religiousgeschüchtliche Versuehe n Vocarbeiten, XVII. (1)].

Sec. Gianous, 1920.

Clement of Alexandria. The exhortation to the Greeks The rich man's salvation; An address to the newly baptized. With an English translation by O. H. Butterworth. Labella Chias Liby. SWILL 1919

Cohn (L.) Editor. See Philo.

s.s. Colchester. The Colchester Museum of local antiquities. Report of the Museum and Muniment Committee for the two years cooks! March 31st, 1920. avo. Colchester. 1920.

Collignon (M.) Collection de Medailles grooques antiques, plaquettes modernes, mitiquities. [Sale Cat.]

Svo: Parik 1919;

Conway (R. S.) Editor See Lavy

Corpusculum poesis Graecae Indibundae. I Parodia Epies Graces, Archestratus, Ed. P. Bramit, 2 Sillographi Graeci. Ed. C. Wachsmuth. 8vo. Leipzig. 1885-8.

Cowley (A. E.) The Hittities. | The Schweich Lectures for 1918. Publ. of Brit. Annd.].

Crowfoot (J. W.) The Island of Merce. See Egypt, Arch. Survey of 19th Men.

ne Crump (M. M.) The Growth of the Asneida

Svo: Oxford: 1920

** Curie (J.) Term sigillata: some typical decorated bowls: [Proc. Soc. Ant. Scotland III 5th Ser. (1916-17).]

Ito, N.D.

Currelly (C. T.) Abydos, III. See Egypt Exploration Society.

Memoir 25.

Currelly (C. T.) Researches in Sinal See Petrie, W. M. Fiinders.

Davies (N. de G.) Five Theban Tombs. See Egypt, Arch. Survey
of. 21st Memoir.

Davies (N. de G.) The chapel of Ptabhetep and the hieroglypha. See Egypt, Arch. Survey of. 8th Menoir.

Deissmann (A.) The epistic of Psenosiris. An original document from the Discletian personation. (Psp. 713 Brit. Mus.). 8vo. 1902

Dewing (H. B.) Translator. See Procopius of Carsarea.

78 s.c. [Univ. of California Publ. in Class. Phil. Vol. V. No. 3.]

Diagonal, The. Edited by Jay Hambidge. From Vol. 1. (1919).
Sim. Newharen, In Progress.

Dickins (G.) Hellenistic Sculpture, with a preface by Percy Gardner: 4to Oxford, 1920

Dicht (E.) Supplementum Lyricum neme Bruchstücke von Arnhilochus, Alexens, Supplie, Carinna, Pindar, Bacchylides, 3rd Ed. Svo. Bonn. 1917.

Diels (H.) Antike Technik, 2nd (enlarged) od.

Syn. Leipzig. 1920

Dieterich (K.) Das Griechentum Kleimasiens. [Lander und Volker der Turkei Schriften des Deutschen Vorderusignkomitus.] Syn. Lehvig. 1915.

Dieulafoy (M.) That antique de Perse

I. Monuments de la vallée de Polvar-Roml.

Monuments de Persépolis.

3: La soulpture Persépolitatine

1. Les monuments voutes de l'époque Achemanide

5: Momments Parthes et Sassanide

Fol Pack 1881_5.

Dio Cassius. Dies Roman History, with an English translation by E. Cary, on the basis of the version of H. R. Freder. 9 Vols. Vols 1-6. [Loob Class. Lib.] Syn. 1914.

Dittenberger (W.) Sylloge inscriptionum gracearum. 3rd est. III, iv. (1) Ed. Hiller v. Guertringen.

Svd. Leipsie 1990.

a.s. Domaszewski (A. von.) Du rebgion des Räminchen Heeres.

8vo. Telee. 1895.

Dosios (N.) Aupropulation the manifest poe godina y deapropries the tradition from planting. 800. Corta. 1880

Dougy Bible. See Valgatac.

Drerup (E.) Fade de Sprachenkampter in Griechenland. (Deutsche Literaturaciting No. 17: 1911.) 1911.

as Duckett (E. S.) Hallenistic influence on the Actual Smith Callege Classical Studies. No. 1, 1920.1

Svir. Northampton (Mass.), 1920.

Duncan (J. G.) Hykan and Jemelite cities. See British School of Ambarology in Egypt.

Ebersolt (J.) Constantinople Byzantine et les Voyageurs du Levant. Syo, Paris, 1979.

Edwards (H. J.) Translator See Caessy and Longon.

Egypt, Archaeological Survey of.

8th Memoir. The misdaba of Prabhatep and Akhethetep at Saquards. Pr. I. The chapet of Prahbatep and the hieroglyphs by N. de G. Davies 4to, 1900.

10th Memoir. Island of Muroe. By J. W. Crowfoot, Mercitic Inscriptions (1) By F. L. Griffiths,

Those little.

2000 Mountage Mercitic Inscriptions (2). By W. Lik Chirid Billia. - Bee 1912

That Mennie. Five Theban Tombe, by N. de G. Davies. 4th (1910)

22nd Memoir. The Reel Tembs of Meir, L. By A. M. Hackmen 4to, 1914.

Egypt Exploration Society (formerly Egypt Exploration Fund). Memoirs. 7. The mound of the Jew and the vity of

Onios. By E. Naville, The Antiquities of Tell of Yahadiyoli. He F. Ll Griffith. Ito. 1800.

Memoir 25. Abydos, III. By E. R. Ayrton, C. T. Curpelly A. E. P. Weigall Sec. 1904.

Theban Temb Series. 2nd Memoir. The Tomb of Antitoker, visior of Sesoitris L and of his wife, Somet, By N. de G. Davies and A. H. Gardines.

Thu. 1920.

An Atlas of Ancient Egyps With complete index, 220 graphical and historical notes, biblical references, etc. 1ro 1891

Graces Homen Brauch

Oxyrhynchus Papyce XIII. XIV. By R P. Greafell and A. S. Hunt. Nea 1919-20

Ehrenberg (C. G.) Reben in Asyrpten, etc. Son Homprich (W. F.)

Eltrem (S.) - Beitrage sur griechischen Religiousgeschichte. 111. Syn Christiania 1920.

Elliott (R. D.) Transition in the Attic Oration.

8vo. Mensslai, Wisconsin. 1919.

** Ellis (H. D.) English verse translations of selections from the Ories of Horace, the Epigrams of Martial, and other writers; to which are appended a few original pieces in English and Latin.
8vo. 1920.

Enlart (C.) Villes mortes du Moyen Age. 8vo. Paris. 1920.

Epicurus. Epicurus opere, fraumenti, testimomanze sulla sua vita.

Tradotti con introduzione e commento da Bignono (E.).

[Filosofi antichi e medievali.] 8vo. Bari. 1920.

Euclid. Eachd in Greek. Bk. I. Ed. T. L. Heath.

Svo. Chambridge: :1920;

Euripides. Choraces from the Iphigeneia in Aulis and the Hippolytus of Euripides. Translated by H. D. [The Poets Translation Series. Second Set. No. 3.] tto 1919.

Evans (J.) The ancient stone implements weapons and ornaments of Great Britain. Svo. 1872.

Fairclough (H. R.) Editor. Ser Virgil.

Falconer (W.) Translator, See Strake

Favez (Ch.) Editor, Son Semion.

Ferrucci (M.) Opuscolo, stampato per la prima volta a Pasa nel 1876, e ristampato e corredato di note biografiche nel 1907 per cura di C. Ronchetti. 8vo. Milan. 1907.

Fllow (B. D.) Early Rulgarian Art. Ho. Berne. 1919.

Trans. American Phil. Ass. Vol. X1.1 Pp. 1-36.

Avo. John III

www. Fiske (6, C.) Lucilius and Horace: a study in the classical theory of imitation. [Univ. of Wiscomin Studies in Language and Literature, No. 7.] Svo. Madison. 1920.

** Fiske (G. C.) The plain style in the Scipionic circle. [Univ. of Wisconsin Studies in Language and Literature, No. 3.]

Svo, Wisconsin, 1919.

** Fitzhugh: (T.) The Old Latin and Old Irish monuments of Verse.

[Univ. of Viczinia, Bull. of School of Latin, No. 10,]

8vo. Charlottesville, Va. 1919.

Flosculi Graeci vitam at mores antiquitatis radolentes. Selected by A. B. Poynton. Syn. Oxford. 1920.

Fobes (F. H.) Editor. See Aristotle.

Foster (B. O.) Franctator, See Livy.

Foster (H. B.) Translatur, See Dio Cassins.

Foucart (P.) Une for Athenienne du IV médie. [Journal des Savants, Avril et Mai, 1902.] 110. Paris. 1902.

Fowler (H. N.) Translatur. See Plato.

** Fowler (W. Warde.) Roman Essays and Interpretations.

Svo. Oxford. 1920.

** Frank (T.) An economic history of Rome to the end of the Republic. Syn. Baltimore. 1920. Pritze (M.) Dis craten Ptalemase and Griechenland

8vo; Halle, 1917

Fronto (M. Cornellus.) Correspondence, with an English translation. By C. R. Haines Vol. I. [Loch Class Lift.] 8vo. 1919.

Gardiner (A. H.) Tarkhan I. and Momphis V. See British School of Archaeology in Egypt.

Gardner (P.) and Jevons (F. B.) A manual of Greek Antiquities,

Gargiulo (R.) Editor. See Naples.

Gazelee (S.) Translator. See Achilles Tatina and Parthenius (under Longus).

Geffcken (J.) Das Christentum im Kampf und Ausgleich mit der griechisch comischen Welt. 3rd edit. [Aus Natur und Gefaleswelt, 54.] 12mo. Leipzig. 1920.

Gerkan (A. von.) Der Possidonaltan. See Milet.

Glover_(T. R.) The conflict of religious in the early Roman Empire.

Sed edit. Syn. 1909.

Greece with the Cyclades and Northern Sporades. [Handbooks prepared under the direction of the historical section of the Foreign Office—No. 18.] Syn. 1920.

Grenfell (B. P.) An Alexandrian crotic fragment and other Greek paperi, chiefly Ptolemaio. 4to. Oxford, 1896.

Grenfell (B. P.) Revenue laws of Ptolemy Philadelphus. Edited from a Greek papyrus in the Bodleian Library, with a translation, commentary, and appendices. Introduction by J. P. Mahaffy. 4to. Oxford, 1896.

Grenfell (B. P.) Editor. See Egypt Exploration Society. Gracco-Roman Branch.

Grenfell (B. P.) and Hunt (A. S.) The Amberd papers being an account of the Greek papers in the collection of the Right Hon. Lord Amberst of Hackney. Pt. II. Classical fragments and documents of the Ptoleonic, Roman, and Byzantine Periods.

4to. 1901.

Grenfell (B. P.) and Hunt (A. S.) New classical fragments and other Greek and Latin papyri. 4to. Oxford, 1897.

Griffith (F. LL). Mercitic Inscriptions. See Egypt Archaeological Survey, 19th and 20th Memoirs.

Griffith (F. LL) Antiquities of Tell-ol-Yahndiyeb. See Egypt Exploration Society, 7th Memoir:

Grosvenor (E. A.) The Hippodrome of Constantinople and its still existing monuments. Svo. 1889.

*s Gsell (Si) Histoire Ancienne de l'Afrique du Nord. Vola il-iv-8vo. Paris. 1920.

Guenon (L.) La cessio bonorum; Svo. Paris. 1920.

Guthrie (M.) A tour performed in the years 1795-6, through the Taucida, or Crimea, the antient kingdom of Bosphorus. Edited by M. Criticov, M.D. (to: 1802. H. D. Translatia. See Euripides.

as Haarhof (Th.) Schools of Gaul. A study of pages and Christian education in the last contary of the Western Empire.

Sto. Oxford: 1920.

Haines (C. R.) Editor and translator, See Fronta

Halliday (W. R.) St. Basil and Julian the Apodato a fingment of legendary history. [Inaugural Lecture.]

Sto. Liverpool, 1915.

Hambidge (J.) Editor. See Diagonal, The Hamilton (H. C.) Translator, See Strake.

Hammarström (M.) Beiträge auf Geschichte des Etruskischen, Lateinischen und Griechischen Alphabets.

its. Helsingfors, 1920.

Hands (A. W.) Coins of Magon Graceia the coinage of the Greek colonies of Southern Italy; Svo. 1908.

Harman (E. G.) Pranslator. See Asservius and Aristophanes.

Hartmann (A.) Untersuchungen über die Sagen vom Tod des Odyssem. Sco. Manich. 1917

Hasluck (F. W.) The Church of Our Lady of the Handred Gates in Parca. See Jewell (H. H.)

Hatzfeld (J.) Les trafiquents Italiens dans l'Orient Heilenique, [Bibl. der Écoles Françaises d'Athènes et de Rome, No. 156.] Sec. Paris, 1919

Haverfield (F.) See Cariisle Museum.

Head (B. V.) On the chronological sequence of the come of Ephesus. 8vo. 1880.

Head (B. V.) On the chronological sequence of the earns of Syramuse. Syra. 1874.

Head (B. V.) A guide to the principal gold and aliver coins of the ancients. See British Museum.

Headlam (W.) Restorations of Menander.

Heath (T. L.) Editor. See Euclid. Svo. Cambridge. 1968.

Heber (Bishop), Review of Milman's Fall of Jerusalem. [Quart. Rov.] 8vo. [1820.]

Heberdey (R.) Number Amerorikous Ernyagirus. [Festschrift für Th. Gamperz.] Ito, Vienna. 1902.

Heiland (P.) Untersuchungen zur Geschichte des König Persons von Makedonien (179-168). 8vo. Jena. 1913.

Helfer (P.) Travels of Dr. and Madame Helfer in Syria, Mesopotamia, Burmah, and other lands. Rendered into English by Mrs. G. Sturge. 2 vols. Svo. 1878.

Hellus. (Διοσιγιασία) Υπόμετημα περί της του Αρμενίου μετά της Δεωτολικής δηθιοδιένε δεκληνίας διουμφωνίας, πουηθέν μέν έπο Εύνεβούς τινος, α.τ.Α. Τεσουνς δευτέρα.

8va. Constantinople. 1850.

Hellas, The Dedecanese, (White Book, 1912-1919.) Sec. 1919.

it.a. - the property of the Roman Swincy.

Hellas, Greek Patriarchute, Persecution of the Greeks in Turkey, 1914-1918. Svo. Constantinople. 1919.

Helias. The Greeks in Turkey ['The New Europe' pamphlets, No. 2.] Svo. 1918.

Hellas, Hellenian in Turkey, London Committee of Unredeemed Gracks, 1919.

Hellas. The liberation of the Greek People in Turkey. [London Committee of Unredomed Greeks.] 8vo. 1919.

Hemprich (W. F.) and Ehrenberg (C. G.) Reisen in Aegypten, Libyen, Nubien, and Dangola Vol. 1., Pt. 1.

4to Berlin 1828.

Herzog (R.) Aus der Geschichte des Bankwesens in Altertum
Tesserse nummulariae. Abb d. Giessener Hochschulgesellschaft. | Svo. Giessen. 1019.

Hiller v. Gaertringen (F.) Ellitor See Dittenberger (W.).

Hogarth (D. G.) Hittite Scale with particular reference to the Ashmoloan Collection. Fol. Oxford 1920.

ws. Holland (F.) Soneca. Svo. 1920.

Homer. Carmina Homerica Ilias et Odyssea ... redacta ... cum notis ac prolegomenis ... studio B. Payme Knight.

4bo.: 1820.

Homer, The Odyssey, With an English translation by A. T. Murray, Vol. I. [Loch Class, Lib.]

Svo. 1919.

Hoppin (J. C.) A handhook of Attic red-figured vases signed by as attributed to the various musters of the sixth and fifth centuries, a.c.; Vol. II.

Svo. Cambridge [Mass]. 1919.

** Horace: The Odes and Epodes. With an English translation by C. E. Bennett. [Losb Class. Lib.] 8vo. 1919.

** Horace. The Odes of Horace translated into English verse by L. I. Shadwell. With the Latin test.

12mo. Oxford 1920.

 ** Horsley (J.) Britannia Remana: or the Roman Antiquities of Britain.
 Fol. 1732.

** Hosidius. Hesidius Geta's tragedy 'Medea,' a Vergilian cento, Latin text with metrical translation by J. J. Mooney, with an outline of ancient Roman imagic.

Svo. Birnilaghum. 1919.

Huelsen (J.) Das Nymphaeum, See Milet.

Hunt (A. S.) Ambarat Papyri—New Classical Fragments. See Granfell (B. P.) Oxychynchus Papyri, See Egypt Exploration Society, Grazzo-Roman Branch.

Hutton (M.) Translator, See Tacitus

Imhoof-Blumer (Fr.) Die Mannen der Dynastie von Pergunam [Abh. d. k. Proms. Akad. d. Wissensch, zu Rerlin, Sitz.-ber. St. xxv. p. 560.] 4to. Berlin, 1884.

n.e. a the gamperay of the Roman Shorety.

Inscriptiones Graecae. Editio minor: Vols. 11., 111, Inscriptiones Attione Euclidia anno posteriores.

Para J. (2) Decreta anno 229/8 posteriora acceduni Leges Sacrae. Ed. J. Kirchner.

Ito Berlin, 1916.

Pars IV. (1) Indices. Archontum tabulae chronologicae. Sermo publicus decretorum proprins.

tto, Berlin 1918;

Pt. 5. Svo. Paris. 1914.

Janus (C.) Editor, See Musici Scriptores Gracei.

Jevons (F. B.) See Gardner (P.)

Jewell (H. H.) and Hasluck (F. W.) The Church of Our Lady of the Hundred Gates (Panagia Hekatontapyliani) in Paros. [Byzantine Research and Publication Fund.]

4to. 1920.

John of Damascus (St.) Saint John Damascene. With an English translation by the Rev. G. R. Woodward and H. Mattingly, [Loob Class. Lib.] 8vo. 1914

Jones (H. L.) Translator. See Stralin.

sea Jones (H. S.) Fresh light on Roman Bureameracy an imaggiral lecture delivered before the University of Oxford on March 11th, 1920. Sec. Oxford, 1920

Jones (W. H. S.) Translator. See Pannanins.

Judica (G.) Le antichità di Acre. Fol. Messina. 1819.

Julian the Apostate, See Restagul (A.).

s.s. Jullian (C.) Histoire de la Gaule, Vol. VI. 8vo. Paris. 1920

w.s. Juvenal and Persius. Satires: With an English translation by G. G. Ramsay [Losb Class. Lib.] 8vo. 1918

Kaerst (J.) Geschichte des Hellenisums. 2nd Ed., Pt. 1.

Svo. Leipzig. 1917.

Kahrstedt (U.) Forschungen auf Geschichte des ausgehenden fünften und des vierten Jahrhunderts

Sea Berlin, 1910.

Kaufmann (C. M.) Handbuch der christlichen Archiologie. 2nd Ed. 8vo. Paderborn. 1918

Kaufmann (C. M.) Die heilige Stadt der Maste,

tto. Munich N D

Kawerau (G.) Das Desphinion in Milet. See Milet.

Kaye (G. R.) A guide to the old observatories at Delhi Jaipur;
Ujjain; Benares. Svo. Calcutta. 1920

Keim (Th.) Editor. See Coluns.

Kephala (E.) Sketches of Eastern Church Life: 8vo. 1920.

Ker (W. C. A.) Translator. See Martial

Kern (0.) Orphons. Eine Religionageachichtliela- Untersuchung. Mit einem Beitrag von Strzygowski.

Svo. Berlin, 1990.

Kirchner (J.) See Imeriptiones General Editionimor.

Klein (W.) Studien zu Ammianius Marcellinus, [Klio, 130-Beiheft.] Swa Berliu, 1914.

Knackfuss (H.) Das Ruthaus von Milet. See Milet.

a. Knight (C. M.) Editor. See Plantun

Knight (R. Payne). Editor. See Homer.

Knobel (E. B.) Historical Studies. See British School of Archaeology in Egypt.

Kornemann (E.) and Meyer (P. M.) Griechische papyri im Museum des oberhessischen Geschichtsvereins zu Giessen. Vol. I Pts. 1, 2, 3. 4to Leipsic. 1908-10.

sa Laing (G. J.) The genitive of value in Latin and other constructions with verbs of rating.

8vo. Chicago (Bl.). 1920.

Lang (A.) Custom and Myth: Svo: 1893.

Laurand (L.) Ce qu'en sait et ce qu'on ignore du cursus. 2nd Ed. [Publ. du Musée Belge, No. 39;]

3vo; Louvain: 1914.

Laurand (L.) Progres et recul de la critique. À propos d'Homère. 8vo. Paris: 1913.

Laurent (J.) L'Arménie entre Byzance et l'Islam depuis la conquête Arabe jusqu'en 886. [Bild, des Écoles Françaises d'Athènes et de Roue, No. 147.] 8vo. Paris, 1919. Id. amother copy.

Laurent (J.) Byzanes et les Tures Seldjounides dans l'Asio occidentale jusqu'on 1081. [Annales de l'Est, publ. par la Faculté des Lettres de l'Univ de Nancy. 28 Ann. Fase 2. Svo. Nancy. 1914 (1919).

Lawson (J. C.) Takes of Aggean intrigue 8vo. 1920.

Lea (T. S.) and Bond (F. B.) Materials for the study of the Apostolia Guosis. Svo. Oxford, 1919.

Leaf (W.) Quatrains from the Greek. [Printed for private circulation only.] 8vo. Edinbargh. 1919.

Lelekos (M. S.) Amoron Arbidoyla 8vo Athena 1868 Lelekos (M. S.) Emilopriov A., 8vo Athena 1888

Leroux (G.) Les origines de l'édifice hypostyle en Gréez, en Orient et chez les Romains. [Bibl. des Ecoles Françaises d' Athènes et de Rome. Fase, 108.]

Son Paris 1913;

Lewes House. Collection of ancient genus. See Bendey (J. D.). Lichtenberg (R. von) Die Agnische Kultur. Wissenschaft und Bildung. No. 83.

Light (Major). Sicilian Scenery. 45s. N.D.

Linforth (1. M.) Solon the Athenian Unix of Cal, Publ. in Class Phil. Vol. 6. 8vo. Beckeley, Ca. 1919.

Littman (E.) See Princeton archaeological expedition to Syria

s. Livy. Titi Livi ab urbe condita. Tomas II. Libri VI.-X. East. R. S. Conway and C. F. Walters. |Script. Class. Bib. Oxon. Sva. Oxford. 1919. as Livy.

Books I. and II. with an English translation. By B. O. Foster: Vol. I. [Loch Class Liller: 8vm 1919.

Loebbach (R.) Handbuch der Römischen Nationalliteratur : Prosaiker and Dichter: Sva. Branswick. 1868.

Daphuis and Chloe. With the English translation of Longus. U. Thorniey, revised and augmented by J. M. Edmonds. Together with PABTHENIUS. The lave rommunes With an English translation by S. Gazelee. [Leele Class Labe. Kin. 1916.

Lontos (I. A.) Translator. Ses Weitzmann (C. F.).

* Lumsden (A.) Remarks on the antiquities of Roms and its environs: Ho. 1797.

as McFayden (D.) The history of the title Imperator under the Roman Empire. Svo. Chicago (III.) 1920.

Mackay (E.) Meydum and Memphis III. See Beitish School of Archaeology in Egypt

Madden (F. W.) Dictionary of Roman coins, republican and fingsrial. Commenced by S. W. Stevenson, revised in part by C. Rough Smith, and completed by F. W. Madden.

Magie (D.) See Princeton archaeological expedition to Seria.

Mahaffy (J. P.) See Grenfell (B. P.). Revenue Laws.

Maps. An Atlas of Ancient Egypt. See Egypt Exploration Services.

Marchant (E. C.) Editor. See Xenophou. Marquardt (J.) Romische Staatsverwaltung. Vols. I. S.

Svo. Leipsie, 1873

Marshall (F. H.) Discovery in Greek Lambs.

evo Cambridge 1920.

R. Martialis (M. Valerius). Martial: Epigrams, with an English translation. By W. C. A. Ker. Vol. J. [Loob Class, Libr.].

Suc 1919.

Massingberd (F. K.) Aναφορά της έπετροσής έπε της συγκουωσία. peri sale dearnhead approductor lendquicie.

Syo: Cophallenia, 1847.

Mattingly (H.) Frankluter See John of Damasons.

Méautis (G.) Reiber. See Bondreaux (P.)

Menandri reliquiae nuper reportae, iterum cabilit. Menander. S. Sudhaus. [Kleine Texts for Voylesungen u. Ebungen.]

Svo. Bonn. 1914

Menander. See Hendlam (W.)

Menge (R.) An Introduction to Ancient Art (2nd ed.) Translated by L. B. Worthington. 8000 1887

a.s. - the property of the Roman Society.

Meric (H.) Die Geschichte der Stadte Byzantian und Kalchedor von ihrer Grundung bis zum Eingreifen der Romer in die Verhältnisse des Outens. Svo. Kiel: 1916.

Merrick (J.) Translator. See Tryphicologus.

n.a. Merrill (W. A.) Notes on Lucretina. [Univ. of California Publ. in Class. Phil., Vol. III., No. 5, pp. 265-316.]

Svo. Berkeley, Ca. 1918.

m.s. Merrill (W. A.) Notes on the Silvan of Station [Univ. of California Publ. in Class. Phil., Vol. V., No. 7, pp. 117-134.]

Svo: Barkeloy, Ca. 1920.

Mesopotamia, The Arab of. 12mo, Basrah, [1910.]

Meyer (2.) Thinkydides und die Entstehung der wissenschaftlieben Geschichtsschreibung. [Mitt d. Vereins d. Freunde it humanist. Gymn., Heft. 14.] 8vo. Vienna. 1913.

Meyer (P. M.) Jariansche Papyri : Erklarung von Urkunden zur Einfährung in die juriatische Papyroskunde:

8vo. Beelin, 1920.

Meyer (P. M.) Editor. See Kornemann (E.)

Midgley (W. W.) Historical Studies. See British School of Archaeology in Egypt.

Milet (Miletan) Ergebnisse der Ausgrabungen und Untersachungen sit dem Jahre 1899. Ed. Th. Wiegand.

L (1) Karte der Milesischen Halbinsal. By P. Wilski.

tto: Berlin, 1006;

(2) Das Rathaus von Milet. By H, Knankfuss,

Mr. Berlin: 1908.

(3) Das Delphinion in Milet. By G. Kaweran and A. Rehin: 4to, Berlin. 1914.

(4) Der Poseidemaltar bei Kap Monodembii. By A. von Gerkan. 4to, Berlin, 1915.

(5) Das Nymplanenin. By J. Huelsen. Text and Plates. 4to, and fol. Berlin. 1919.

III. (1) Der Latinos. By Th. Wiegund,

Ho. Berlin 1915.

Miller (F. J.) Translator, See Ovid and Semen,

Miller (W.). Translator, See Civera and Xenophon.

Mills (J. Saxon) and Chrussachi (M. G.) The Question of Thrace. Greeks, Bulgars, and Turks 4to, 1919.

Milman (H. H.) The Fall of Jerusalem. See Heber (Bishop).

Milne (J. G.) The Alexandrian comage of the eighth year of Gallienus, [Ancient Egypt, Pr. 1V., 1917].

Ro. 1917.

Milne (J. G.) A History of Egypt under Roman Rule. | Vol. V. in A History of Egypt. | Sec. 1808

Milne (J. G.) Some Alexandrian come. 4to, 1917.

Milne (J. G.) Historical Studies, See British School of Archaeology in Egypt.

Mooney (J. J.) Editor. See Hispidius,

Muchl (M.) Die politischen Ideen des Isokrates und die Geschichts schreibung. 8vo. Wurzburg. 1917.

Mueller (C. O.) Antiquitates Antiochenae.

Ito . Cottingen 1830.

Moñoz (A.) La Basilica di Santa Sabina in Roma. Il piecolo cicereme moderno, No. 16. | 12mo. Milan. 1919.

Murray (A. T.) Translator. See Homer.

Murray (John). Publisher. Handbook for travellers in Constants nople, Bruss, and the Troad. (With index and directory for 1907.)

Murray (M. A.) Historical Studies. See British School of Archaeology in Egypt.

Museums Association. Report of a deputation to the Prime Minister on the closing of Museums, 19th February, 1916. Sva. Exeter, 1916.

Musici Scriptores Graeci. Aristoteles, Enclides, Nichomachus, Bacchius, Gaudentius, Alypius, et melodiarum vetarum quidquid exstat. Edited by C. James. [Bibl. Script. Gr. Tenb.] 8vo. Leipsie: 1895, 1899.

Mustoxidi (). Delle cose Cornires. 4to. Corfu. 1848.

Naples. Collection of the most remarkable monuments of the National Museum, published by R. Garginio, Vols. 2, 3, 4to. Naples, 1868.

Naville (E.) The mound of the Jew, &c. See Egypt Exploration Society, Momoir 7.

Nettleship (H.) Editor. See Vergil.

New York, Metropolitan Museum of Art. Catalogue of engraved gems of the classical style. By G. A. M. Richter

8vo. New York. 1920.

Newell (E. T.) Myriandros, Alexandria, Kattisson.

4to. Now York. 1920.

Nicole (J.) Les papyrus de Genève, transcrits et publies. Vol. I., Pts. I, 2. Fol. Geneva. 1896, 1900.

Nilsson (M. P.) Die Entstehung und religiese Bedeutung des Griechischen Kalenders. [Lands Universitets Arsskrift N.F. Avd. I. Bd. 14, Nr. 21.] 8vo. Land. 1918.

Nilsson (M. P.) Primitive Time-reckening. A study in the origins and first development of the art of counting time among the primitive and early culture peoples. [Acta Soc. Hum. Litt. Landenses, 1.] Sec. Land and Oxford: 1920.

Nilsson (M. P.) Die Unbernahme und Entwickelung des Alphabete durch die Griechen. [Det Kgt. Danake Valenskabernes Selskab, Hist.-fil. Medd. J. 6.]

Sys. Copenhagen, 1918,

was Nitchie (E.) Vergil and the English poets. [Columbia Unit. Studios in English and comparative literature.

> Svu. Now York. 1919

Nixon (P. 1 Translator, See Plantus

Norwood (G.) Greek Tragedy

Sycs. 1920.

a.s. Nutting (H. C.) Cuesar's use of past tenses in com-chanses Univ. of California Publ. in Class. Phil. Vol. 5, No. 1, pp. 1-53. Sva. Berkeley, Co. 1918.

Oldfather (G. A.) See Seneca.

Orsier (J.) Le Phidon de Platen et le Socrate de Lamartine, suivid'un aperça historique et critique un la philosophie ancienne jusqu'à la Renaissance, Svo. Paris, 1919.

*a Oswald (F.) and Pryce (T. Davies). An introduction to the study of Terra Sigillata, treated from a ahronological standpoint.

Svo. 1920

Otto (W.) Mexander der Grass, Sva Marburg, 1916.

Heroides and Amores. With an English translation by s.s. Ovid. G. Showerman. [Lock Class Lib.] Sec. 1914

ma Ovid. Metamorphose. With an English translation by F. J. Miller. 2 vols. [Loub Class Lib.] Sep. 1914

Pachtikos (G. A.) 200 Somethy accurate and role oroqueron role (Algeria) Anov. x.r.A. Toping A. Sya Albert 1905

ws Pais (E.) Storia critica ill Roma daranti i primi cinque accoll. Vol. IV. Svn. Rame. 1920

Palamas (K.) Life Immovable. Part I. Translated by A. E. Phoutrides. Svo. Cambridge (Mass.) 1919.

Palestine Exploration Fund: Annual Vols I,-III

Rto. 1911-1915.

Papagiannakopoulos (G.) To Meya Outua rot Ayion Paparino zpoc rev Ayykov Navapyov. 12mo. Athems. 1917.

Parodia epica Graeca: See Corpusentum poesis Graecao Indibumlae-

Parthenius. The Love Romances. See Longus.

Paton (W. R.) Translator. See Ambology.

Pausanias. Description of Greece, With an English translation by W. H. S. Jones. it vols. Vol. J. [Loeb Class, Lib.]

8vo, 1918.

Pease [A. S.] On the authenticity of the Hercules Octoons, Trans. Am. Phil. Ass., 19. Svo. Illinois, 1918.

a.z. Pease (A. S.) The attitude of Jerume towards pagan literature. Trans of Amer. Philol Ass. Vol. L. 1919.

Svo. 1919.

an Pease (A. S.) Is the Octavia a play of Senson! [Class Journal, XV. No. 7 Sec. 1920

Perrin (B.) Translator. See Planarela

n.s. the property of the Roman Secrety.

Persepolis. Catalogue of ousts and sculptures from Persopolis and the originanthesis. Syo. N.I.

Satires. With an English translation by G. G. Ramany. Perslus. See Juvenial.

Peskett (A. G.) Translation, See Causer. Peterson (W.) Translator. See Tacitus.

Petrie (W. M. Flinders). Researches in Sinai. With chapters by C. T. Currelly. 4to. 1906

Petrie (W. M. Flinders). Gizeli and Rifeli. - Historical Studies -Hykissi and Israelite Cities Memphis, L.-V. Meydum -Roman Portraits - Tarkban, I. See British School of Archaeology in Egypt.

Phaedri, Aug. liberti, fabularum Assoriarum fibri V. Phaedrus. Pdi P. Burmann Svo. The Hague, 1718.

s.s. Phaedrus, Fabular Acopiac, Ed. J. P. Postgate.

8vo. Oxford 1920;

as Phillimore J. S.) Ille ago Virgil and Professor Richmond.

Sva. Oxford, 1920.

Phillimore (J. S.) The revisal of criticism.

SVIL Oxford. 1979.

Philo. Philanis Alexandri opera quin supersoni Vol. VI. Edd. L Colin et S. Reiter. Syn, Berlin |DIo.

Phoutrides (A. E.) Translator, See Palannas (K.) Life Immovable. Pichler (A.) Geschichte des Protestantismes in der orientalischen Kirche im 17. Jahrhunderi, oder. Der Patriarch Cyrillus Linearie und wine Zeit. Syn. Munight 1862.

Plato. Enthyphra Apology, Crito. Placedo. Pinedrus. With an English translation by H. N. Fowler and an introduction by W. R. M. Lamb. [Lock, Class, Lib.] 8vo. 1919.

as Plautus (T. Maccius). Plautos With an English translation by P. Nixon, Vals. I., H. [Leeb Class. Lib.] Syo. 1916.

s.s. Plautus. T. Macci Planti Memochini Fal. C. M. Knight.

Svo. Cambridge: 1919.

Plutarch. Plutarch's Lives. With an English translation by B. Perrin. II vols. Vols. L.-VIII. [Loch Class, Lib.]

Syn. 1914.

Ponten (J.) Griechische Landschaften. Ein Versuch kunstlenseben Eriffeschreibens. 2 vols. Text and Plates.

Svo. Stullysrt 1911.

a.a. Possidius. Sanoti Augustini vita scripta a Possidio episcopo. Ed. with revised text, introduction, notes, ami an English version by H. T. Weiskinton.

Sec. Princeton, N.J. 1919;

Postgate (J. P.) Milior. See Phaodras.

Poulsen (F.) Delphi: Translated by G. C. Richards, with a preface by Percy Gardner. Svo: 1941

Poulsen (F.) La reflection Ustinos la sculpture Videnskape Skeife II. Hist files Klasse. [920. No. 3].

Avo. Kristiana 1920.

Poynton (A. B.) See Flowculi Cruser.

Praschniker (C.) Archaologische Ferschungen in Albanien und Montenegro. [Akad d. Wissensch, in Wien, Schrift d. Balkankonnu. Antiquarische Abt. Heft, VIII.)

tto, Villiani.

Preisigke (F.) Grischische Papyrus d. K. Univ. a. Landsshildinthek zu Strassburg. Bd. I. Hefte I. 2. 3.

450. Leipnic, 1912.

Preisigke (F.) Vom gottlichen Fluidum mach Agyptischer An schauung [Papyrusinstitut Heidelberg Schrift 1]

Svo. Berlin, 1920.

Princeton Archaeological Expeditions to Syria.

II. Architecture, (a) S. Syria, (b) N Syria, By H. C. Butler.

III. Greek and Latin Inscriptions. (a) S. Syria. By E. Littman, D. Magie and D. R. Stoast. (b) N. Syria. By W. K Prentice.

IV Semitic inscriptions (a) Nabatacan inscriptions. By E. Littremer. ito Levien. La Progress

Procopius of Caesarea. Procopius: With an English translation by H. B. Dewing: 6 Vols. Vols. 1, 2. [Lock Class. Lile 1014. Sver.

Pronberger (N.) Beitrage zur Chronologie der Brisfe des hil Higgonyums. Svo: Amberg: 1913

Pryce (T. Davies). See Cawalil (F.)

8800 Calle: 1917

Quintero (P.) Cadis Primitivo, Rackham (R.) Trundator See Cicato.

Ramsay (G. G.) Translator. See Invent.

Rand E. K.) Translator See Boethins

Rehm (A.). Das Delphinion is Milet. See Milet.

Reichhold (K.) Skizzenbach Griechischer Meister. Ein Emblick in ilas griechische Kunvistudium auf Grund der Vasunbilder. Svo Munich 1919.

Reiter (S.) Editor. See Phills.

Richards (G. C.) Translator, See Poulsen (F.), Richter (G. A. M.) See New York, Motropolitan Mussaum of Art

Roberts (W. Rhys). Elleven Words of Smonides. Leeds siml district branch of the Chamical Association |

Svo Cambridge 1020,

Robertson (A. T.) A grammar of the Greek New Testament in the light of historical research. Sed Ret.

1to New York [1919;]

Rolfe (J. C.) Translater, See Surtantus

Ronchetti C.) Editor. See Varrage (M.)

Rostagni (A.) Giuliano l'Apostata. Saggio critico con le operatte politiche e satiriche tradotte e commentate.

Sya Torino, 1920.

Essex Archaeol. Soc. Vol. XV. Pt. 1.) 8vo. N.D.

. Sargeaunt (J.) The trees, shrulls and plants of Vergil.

Svo, Oxford: 1920.

Schneider (E.) See Pompeius Trogus.

Schober (A.) See Pruschniker (U.).

Schoenfelder (W.) Die städtischen und Bundesbeamten des griechischen Festlandes vom 1 Jahrhundert von Chr. Geb. bis in die römischen Kaiserzeit.

Svn. Weith L Thur. 1917

Schuyler (E.) Turkestan. Notes of a journey in Russian Turkestan. Khokand. Bukhara, and Kuldja. 2 Vols. Fourth Ed. 8vo. 1876.

Schwartz (Ed.) Das Geschichtzwert des Thukydides.

8vo. Bonn. 1919.

Seager (R. B.) The Comotory of Pachyanones, Crete. [Univ. of Pennsylvania, Mus. Anthrop. Publ. VII. No. 1.]

ito. Philadelphia. 1916.

** Seltman (0.) Deax trophees Romains. (Hiv. italiana di numismatica, 1912. Part I.) 8vo. Milan. 1912.

** Seneca Seneca's Tragesties. With an English translation by F. J. Miller. 2 vols. [Loeb, Class. Libr.] Svo. [917.]

** Seneca. L. Annaci Senecae Dialogorum Lib. XII. ad Helviani untrem de consolatione. Texte Latin. By Ch. Favor.

evo, Lausanne, 1918.

** Sensca. Index verborum quae in Semecae fabulis nec non in Octavia praetexia reperiuntur. By G. A. Oldfather, A. S. Pease, and H. V. Cauter. [Univ. of Illinois Studies in Language and Literature. Vol. IV. Nos. 2, 3, 4.]

Sec. Urbann, III. 1918;

Shadwell (L. L.) Translator. See Horace.

s.s Sharpe (M.) Middle-ex in British, Roman, and Saxon Times.

Ito 1019

Showerman (G.) See Ovid, Heroides and Amores.

Sillographi Graeci. See Corpusculum poesis Graecae indibundae. Sladen (D.) Sieily, the new winter resort in encyclopaedia of

Sicily. 8vo. 1905.

Smith (C. Roach), See Madden (F. W.)

Smith (V. A.) History of fine art in India and Ceylon from the earliest filmes to the present day.

He, Oxford, 1911.

Snyder (G. A. S.) De forma matris cum infante sedentis apad antiques. Doctoral Thesis presented to Univ. of Utreeht. J Svo. Utreeht. 1920.

Sophocles, Ichiantae, Ed. and translator, ft. J. Walgar 3800 1919 Sophocles. The Occupies Tyrannas of Sophocles. Translated and explained by J. T. Sheppard. Sec. Cambridge, 1920. Spendel A. Untersachungen zum Hesewesen der Diadochen. Svo. Bresten a.s. Spiers (R. Phené). Sassanian Architecture. R.L.R.A. Transac-Liona Vol. VII. N.S. 4414. LASTHE Stace (W. T.) A critical History of Greek philosophy. Style Thirtie Stanley (A. P.) The Bible in the Holy Land, MYTH. THENN Stein (A.) Untersuchungen zur Geschiehte is Verwaltung Aegyptens unter Rounischer Hurmchaft 8vo. Stattlert. 1915 Sterrett (J. R. S.) Translation. See Steale. Stevenson (S. W.) See Madden (F. W.) Stewart (H. F.) Translator, Sen Bosching. Strabo. The Geography, literally translated by H. C. Hamilton (Blos. 1-VI.) and W. Falconer (Blcs. VII.-XVII.) 3 vols: | Bohn's Classical Library. Svo. 1854. Strabo. The Geography of Strabo. With an English translation. By H. L. Jones and J. H. S. Sterrett. 8 vols. Vol. I. Look Chas. Libr. 8vo. 1917 Strassburg. Griechiache Papyrus: See Premigke (Fr.). Strzygowski (J.) Die Bankunss der Armonier und Europa. 2 vols. Syo. Vienna. 1918. Stuart (R.) See Princeton Archaeological expeditions to Syria-Sudhaus (S.) Menanderstudien. Svo. Bonn. 1914 Sudhaus (S.) Editor See Menander. * Sustonius Tranquillus (C.) Sustanius. With an English translation by J. C. Rolfe, 2 vols. [Loch Class, Libr.] Sec. 1914 Es Sumner (H.) A descriptive account of the Roman pottery made at Ashley Balls, New Forest. With plans of the site and Illinourablems of the view. Syo. 1919. Sundwall (J.) Der Umprung der Kretischen Schrift fActa Acad. Abounds humanion 1 2 See. Abb. 1920. Svoronos (J. N.) Libelleniamo primitit de la Macceloina prouve pur la munismatique of Por du Panger. Ser. Paris 1919. u.s. Swoboda (K. M.) Roomische und romanische Palaste eine architelrurge chiebtliche Untersuchung Sin Minima 1919 Sypia. Revue d'Art oriental et d'Archivlogie From Vol. 1., 1920. No. Paris. In progress as Tacitus (P. Cornellus). The Dialogues translated by W. Poterage.

Ches, Liki

Agricola, Germania translated by M. Hatton, Leab

Marie 1111 L

as Taylor (A. J.) The Roman Baths of Bath;

Paner Basil 1907;

[Tebbs (H. Virtue)] Catalogue of Japanese colour prints in the collection of the late H. V. T. Sro. 1913;

Theocritus. The Idylla, Edited with an introduction and notes by B. J. Chalmaley, New ed. Svo. 1019

Theocritus, Bion, and Mosehus. Graeco et latine. Ascedant. virorum doctorum animadversiones, scholia, indices, st. M. Asmilii Parti texicon Doricum, 2 vols

1523.

Thomas (M.) How to understand Sculpture. SYO, 1911

Thornley (G.) Translator See Longue

Tillyard (H. J. W.) The undern Greek language question. | South African Quarterly, II. 6.1

Toynbee (A. J.) The place of mediageal and modern Greek in history. [Laangural Lecture of the Kornes Chair of Modern Greek and Byzantine Language, Laterature, and History.] 410. 1910.

Tryphiodorus. The Destruction of Troy : being the Sequel of the Hiad. Translated from the Greek with Notes. By J. Morrick. Svo. Oxford: 1730;

as Van Buren (A. W.) The past decade of Pempeian studies. Class, Journ. Vol. XV. 7. 370. 11/20

as Virgil. Agneid VI. Ed. H. E. Butler, Svo. Oxford. 1920.

Eclogues, Georgies, Aenaid, and Minor Poems. With an a.s. Virgil. English translation by H. R. Pairelough. 2 vols | Loch Claus Lib, 8vo. 1920.

Bucolies, Georgies, Aoneid. Abridged from Prof. Conington's Virgil. edition by H. Nettieship. 2 vols. [Grammar School Chantes [1840 1841

Virgile et les origines d'Ostie. See Carcopino (J.) Virgil.

See Nitchie (E.): Virgil and the English poets. Virgil.

See Sarguaunt (J.) The trees, shrules, and plants of Virgil. Virgil. Volonakis (M.) Greece on the exe of resurrection. Sec. 1920. Id. Another copy.

Vulgate, Biblia saera vulgatae editionis Sixti V. Pont Max. iussu recognita et Clementis VIII. anctoritate edita.

Svo. Tornaci Nersievens. 1894.

The Huly Rible translated from the Latin Valgate Vulgate. (Dance version). Svo. Dublin 1846.

Wachsmuth (C.) Krister, See Corpusculum poesis Grasseas Indikornylae.

Waddington (W. H.) Memous sur la chromologie de la vie du rhotone Aclina Arietide. Mem. the l'Acad. she Inserer Vol XXVI. 1 the Paris | So7.

Wainwright (6.) Memples, III., V - Meydam - Torkhan, L. Se-British School of Archaeology in Egypt

no. := the property of the Rough North) ...

- Walker (J. H.) Memphis L. II. See British School of Archaeology in Egypt.
- Walker (R. J.) Observaciones nouvea de les fragmentos de Esquilo. Svo. Buenos Aires. 1920.
- Walker (R. J.) Editor. See Sophoches, Ichnoutae.
- Walters (C. F.) Editor. See Lavy.
- Warrack (J.) Greek Sculpture. The hundred illustrations: With an introduction. Ito: Edinburgh, N.D.
- Warren (E. P.) Alemason, Hypermestra, Camens,
- sa. Id. Another copy. Svo. Oxford, 1919.
 - Wattenbach (W.) Anleitung zur Lateinischer Palacogruphie. 4º. verb. Aufl. 4to. Leipsie. 1886.
 - Wattenbach (W.) Schrifttafeln var Geschichte der griechischen Schrift und zum Stadium der griechischen Palacographie. Pts. 1., 11. 4to. Berlin. 1876-7.
 - Weicker (6.) Der Seelenvogel in der alten Latteratur u. Kunst. Fol. Leisele. 1902.
 - Weigall (A. E. P.) Abydes III. See Egypt Exploration Society.

 Memoir 25.
 - Weiskotten H. T. Million. San Possidium.

 - Wessely (C.) Aus der Welt der Papyri. Svo. Leipzie. 1914.
 - Wessely (C.) Karanis und Soknarain Nesos. Studien zur Geschichte antiker Kultur und Personenverhältnisse. [Denkschr. d. k. Akad. d. Wissensels. in Wien, Phil. hist. Klasse, Bd. XLVII., (4).] 410. Vienna. 1902.
- wa Westwood (J. O.) Lapidarium Wallias: this early inscribed and sculptured stones of Wales. 4to, Oxford, 1876-79.
- 8.8. Wheeler (R. E. M.). The Balkerne Cate, Colchester. [Trans. of Essex Arch. Soc. (n.s.), XV., pp. 179-189.]
 - dvo: Cololisator 1920,
 - White (H. G. Evelyn). The Sayings of Jesus from Oxyrhynchus. Edited with introduction, critical apparatus, and commentary. Syo. Cambridge 1920.
 - White (H. G. Evelyn). Translator, See Ausonim.
 - Wiegand (Th.) Editor. Kunstschutz um Kriege. Vol. 11. Die Kriegsschauplatze im Süden, Osten, und Sudosten. [Zeitsuhr. für bild. Kunst, N.F. xxx., H. II.]
 - Fol. Leipzur. 1948-19.
 - Wiegand (Th.) Simi. [Wissenschaftliebe Veröffentlichungen d. Deutsch-Terkischen Denkantschafz-Kommandos, I.]
 Fol. Berlin 1920.
 - Wiegand Th. Adilor. See Milet.
 - Wiegand Th. | Der Latmos See Milet

Wilamowitz-Moellendorf (U. v.) Dar grindfinako ami dar pla
tomschi Staatsgedanke. Svo. Berlin: 1919.
Wllamowitz-Moellendorf (U. v.) Homerische Untersuelongen.
Philologuene Untersnehungen, Siebentes Heit.
svo. Berim. 1884
Wilamowitz-Moellendorf (U. v.) Dw Hiss and Home. 2nd ed.
Svo. Barlin. 1920
Wilamowitz-Moellendorf (U, vo) Platon, I volu 2int ed.
Svg. Berlin. 1020.
Wilski (P.) Karts der Milesischen Halbinsel. See Milet
Wilson (C. W.) Golgotha and the Holy Sepulches. Svo. 1306.
Wolters (P.) Archaelogische Bemerkungen, II (Sitz d. Bay.
Akad, Wissensohaften, Philosoph, philolog, u. hist. Klasse,
Jg. 1915, 3 Abldg 8vo. Manuels, 1915,
Wood (H.) The Shores of Lake Aral. Svo. 1876.
Woodward (G. R.) Translator. See John of Damaseus (St.).
Xenophon. Opera Onnis. Touras V. Opusquia. Editor. E. C.
Marchant Script, Class, Bibl. Oxon-
8vo. Oxford. 1920.
Xenophon. The Cyropaedia. With an English translation by
W. Miller, 2 vols. [Luch Class, Lib.] Syn. 1914.
Xenophon. Hellenies, Books L-V. With an English translation
hy C. L. Brownson. Tasch Claus, Lib. 8m. 1918.
Young (W.) The history of Athens politically and philosophically
considered, with a view to un investigation of the ma-
the state of the s

Zeller (E.) Die Philosophie der Griechen in ihrer geschichtlichen Entwicklung dargestellt. 2 vols in 6 paris. Vol. L. Pt. L 6th ed. 1919. Vol. II., Pts. 1, 2, 4th ed. 1879, 1889. Vol. III., Pts. 1, 2, 4th ed. 1903, 1909. 8vo. Leipsic.

mediate causes of elevation, and of decline, operative in

Es Zulusta (F. de) The Study of Remail Law to-day.

a free and commercial state.

Seva 1986and 1980:

Hr. 1780.

may - the property of the Roman Society.

SINTH LIST: OF

ACCESSIONS TO THE CATALOGUE OF SLIDES IN THE JOINT COLLECTION OF THE SOCIETIES FOR THE PROMOTION OF HELLENIC AND ROMAN STUDIES

PUBLISHED IN VOL. XL OF THE JOURNAL OF HELLENIC SPUDIES. AND ISSUED WITH VOL. IX. OF THE JOURNAL OF ROMAN STUDIES.

NOTE.—The Original Catalogue can be purchased by members and subscribing libraries at 4-, or, interieaved, 5- (by post 5/- and 6/- respectively). All subsequent Accession Lists, which are published annually, can be purchased, price 4d. each. Applications should be made to the Librarian, 19, Bloomsbury Square, W.C. 1.

Bludes prediced by the latter water the property of the Roman Saviety.

TOPOGRAPHY

AND MONUMENTS IN SITU.

ISLANDS.

tej	Crete,	Ago in	Site of exceptations from &.
0.475	RE	111	Nuncey view.
100	9.0	981	long gallery with pishel or note.
407	8-		Throng room: reconstruction of stal of room;
1438	400	Phianeton.	Completed ground plan of pales, I denumber the denie di dive,
		Notari	Fee. 1214. De. 17.
1435	44	Printelan.	Timple Ar ground plan remediranted, (Amazorus d. R. Sande W.
			J. Com., J. Rg. 43).
EANO	85	mp .	is blacker and part of muliptorial architeave reconstructed
			lid, the this
1607.	B1	8.0	is remotestuction of time hatmone program and other fel-
			pt rik

MYCENAE

Excavations of the British School at Athens, 1920.

2552	Map of the Message district. (Perrot and Chipper, His on of Conventions, VI, 16, 3, 1
2425	Derronae, gilleral Vira at the mile
e falls	The Astropolis, map (Percel and Chipms, Wienfer do Part antique, VL, He 50.)
8389	1000m than Wa.
8387	from the 3. f
L234	and the dam wate from the S. afrons a drawings.
4336	Arrivolle wall from N.E. abouting norther mate

Ixxviii

Pare or between Accopule wall and wall emporting grave titule. 022360 Grave-circle, plan. (.40. M/H. 1914.) 4299 4507 nus niptured slabs. 8889 T. olds allowing facing dala-2320 and gracery, antrain-10 Granary to N. W. of the Lion Gate, 8386 a, h, s, d, Late Helladic III. value of latest Mysemasan style with Egyptlate 4221 [13th-10th dynasty) influence. 45.34 four-decorated jam of i. H. III. style. **电影电影** eighth shall grave beneath floor, 511 493K eighth shift-grave : gold resettio, avery tusks and steatite baurantum pointant. 8395 House of Warrior-vase, from the K., shewing well. 2396 and " South House. South House, from N. W. BURT 29504 the 'closed door 'bracking to E. room. -110 181 diagram shewing construction of walla-4280 81 . . . (a), planter from Middle Helbertle formal (a Starrup-vone with duck 101016 HI Briss - F. L. H. Hill., style. 4247 Paince, plan diewing position of later tomple, etc. BRIDE view Isom threshold of magazon into prodomor, sithmes and court-11 3391 cours and althous showing states; to N. and the produces. TT neurs making into aithousa, produmes and angaron. 2204 41 4220 restantion of attack personal (from a drawing). 6.2333. Shyton Well, inguent of buildhead rhyton (drawing), with diagram shawing method of insuring home and evelulls. 4334 day saling (two quadrapole facing sored piller province by double pair of horne of nonangration ; there in field). 44535 (a) vane-fragment of L.H. III. style. (b) Rhyton in Japan Atendrem-4239 Treasury of Atreus, the threshold. 4240 avoda mori uses blodowie 10.01 14 4241 the shold : discress showing construction. threshold : central walge partly (l.), entirely it he moved. 42149 threshold; control wedge runoved. 43345 11 - 0 E 4245 threshold and linted from principle of tember n fe 4246 interior from fourth outers to roof. 42140 Temb of Clytomnestra, interior from floor to roof. Parated plaster, (1.) male and female acrobat, (c.) spotted built and hand of female tornaller. Bath coffin and waser of L.H. [11], atyle from trenchis by Lion Gute, 229T

MISCELLANEA TOPOGRAPHICA.

	The Committee Section
1236	Seesae, temple of Apolio, Mt. Ithome in distance. (Pontso, Griechische Lemischaften, ph. 25.)
THEF	Chaerones, lion monument as retioned. (Ponton, Conschient Leads haften, pt. 29.)
9587	Constantinople, plan of the land walls. (Yan Millingen, Byr. Conp. pl. facing p. 44.)
9588	idea of the wall on the sea of Marmora pid. pl. tering p. 200.)
1:232	Megalopolia, theatre. [Ponton, Grischische Lamincheffen, pl. 25.]
1230	Statement I blanch and the statement of
1 500	Measure, Ithore range from S.E. To v. Mt. Ithorne, on salidle, Message. (Ponten, Grachische Landerbaften, pl. 2)
1931	p. showing position on sachite of Ithoms rather and walls 14d., pl 4.)
1209	it constant presentation of tracing Tables and walls fed, pr 4.
2.603	Petrocus, between (r.), Zet (l.), Salemie in distance. (Penten, Sc. Landehoffel., pl. 108.)
11935	R. Styn, at entrance to gorge of Magaloupill: (Puhtun, Ge. Linkhelmften, pl. 47.)

Ixxix

TRALY

```
7170 Mapour the Raman world, a. . 255-a. p. 100. Marray's Class Albert pl. 2.1
  2465
         Rome, Roma Urba halb ale Imp. August ad Dischestant aratem.
                                                                                 Barrier Triespecial
                                 Haufsen, Formor U.K. d. pl. (fi).
  1164
                               male a Constantini magni al Gragorii magni sulatem. (id. pl. iii.)
                 S. Sobustiano: gaperal rlow of cometary.
第三046
           . 16.
B2947
                                interior of entired touch.
           16
BED48
                                mather view, showing reserved for price and for collins.
           36
                      W
18294D
                                stanco deporation lie interlor.
           10
                      44
B2950
           18
                                parnied decoration on walls
BESSE
                Basilloa fimiliterramana), must Corta Maggiore a plan.
           a ki
Bounn
                         interior son from sistrance.
                 n His
           180
B9934
                         interior, leoking towards entreme-
           10
                  90
B0995
                         the smaller (left) misly.
           881
                  (8=
B2200
                         samifed serling of the lautern.
           3191
                 1.61
B2937
                         et, detail of stures becometion.
BETSEN
                         of, detail of stude descration (Maintain a panther),
                  191
22000
                         Great Hall; amove desoration of vanited calling, general view.
           46
                  e Rije
B2940
                         id, detail of stude describes (Rape of Canymale).
           20
                  181
Biles 1
                         id., detail of decoration (Reading lesson).
B2942
                         of a detail of decoration (Privates feeding second make).
B2043
                         id., delial of atheen decoration (Wine-d figure to front of a thyme
           10
                  6.1
                          alerion).
B2044
                         of, Istali of almost describin (Rape of Lamorppidae);
                  199
Banda
                        of portrait head fataceo on one of the pylane.
                  9.0
 1468
       Vest, Roman road on the site of math sent Ermann temple
 1489
          ., grotte in Etruscau remple to best, where remains of stehnia terra-cotta strine
                worn burgers.
 1421
              Apollo, archale berra corta status from unth cone. Etruscun temple.
 1473
             id, another view in proble.
 1474
          at, hand only.
 1475
          .. Hermen, head of sreham terra colds status from sixth court. Explains temple.
 1476
          body of stag and foot of Harakles from with cent. Etrasan temple.
```

NORTH AFRICA

7157 Syrene, Plan of extravations in 1866. (Smith and Pandot, Discovers at Cyrta-

Excavations at Benghazi (Cyrene) 1913-1919.

```
7356
      Benghazi (Cyrene), the Techno (lat sentury A.D.I where statues our found.
273
                  Alexander the Great, muchle statue.
 280
                                      12m front
171
                 Aphroalite, marble scatter, front enew.
 8711
                            black when
 861
                 Mongae, with a panilled muchin status.
ALT.
                 here with a low, much! ciains, from vion
697
                  . lunk sing
                 be handi fronteriow.
201
991
                  or Read, in posite,
          B.F.
210
                The Graves, markle group, front views
SIL
                            more value of India.
                     344
          **
225
                             the local out with that
                     10
          20
231
                             hadlile going than figure, he then the ven.
          40
                     20
283
                           brening control figure of 1511.
```

lxxx

	ixxx
1/53	Benghasi Hornes, marios sixtus, front sies .
000	in land they
pad	the head found steer
697	in the head, in profile.
9650	Sater, merilifall, machine states
850	2. Zaos, with major and wrele, marble status from Assopalie of Cyruns.
3093	Sources Monda person of (Virgit composing the Assembly (Now Paid, val. br. pl. 23.)
250	Tripoli: Arch of Marsus Auralius, most na cinema.
251	- in it present medialors
2352	interior, showing adaptation of dome to square wilding.
254	, , , i chielor view of disine alab roof of duma
10/37	marble darso of Eros (i) from Tarkial furtiess.
Light	Zittan, more percent (gladisterial armore and trainers).
	ROMAN BRITAIN.
Bu. 37	Borcovicus, gaisway leading to amphithe atta (1).
B9338	Cituraum, danged courtyard, entrence gate and arended wall of prestorium (f)
B9330	a street.
B9349	a grantments and gate.
	SCULPTURE.
	= laken from original or allegnate regroduction.
773	Head* of wooden matur ("Smokh et Beled"), showing insurted metal systashes. Cales theh Mus.
1363	Nemants fragment of head of status from tomple at Rhammen B. M.
2140	
67%	
872	
987	
986	E bound for secondar
767	Parallel Barrier Brance Blance Children
839	and the first the same than the first the same of the same of the same than the same t
2:17	
212()	
221	
.226	
237	
188	
593	
195	was a second of the second of
990	
207	The bottom of the later of the state of the
1831	Cast of unfinished muchle striums of toutth contract type
	1
100	
45094	
51.21	Agrippine, * costol marble datue. Home, Mar. Capit.

Luxxi

- Alexander the Great," murble status from Roughard, the head PENG. herm from Amin, full face. Louve.
- 6111 Augustus, status from Prime Ports. Rome, Mise Var. 8123 Nerva (westing a togal, marble states. Ross, Mrs. Vat.
- 2194 Tacodora" (wife or Emperor Justinian), hand from electric. Million. Mon. Arch. (River-M/M. 25, pl 121
- alto. Photpast statue of a matrix, " First cent. a.m. Rome, Man Cape
- 3616: Xauthie Harny untb. " muth side. It M
- Warper torn by " sent seds | B. bi
- 5483 Rous, Luderics Throne. Sketch sharing the postron of reliefs
- 2790 : Ladovisi Throne, -sites slab, " Home, Mus. Termo
- THE. anto refugi. Thomas Mile Torina
- 8119 Rome tombof the Pateril, the rese piller. (Scenny, Museus & office. 16 TEXT.)
 500 Grave rainf and Lamine Empellies Philamorus First cont. 10. (1) 1. 11 F1895. It M.
- 1340 Alber declinated for safe rature of Septimine Several and life family, with manus of Gets and Corneilla council WM

OTHER ARTS.

- un . Africander with the large, Remore againstic Lingupe Nichtelber, She fine 1, 10 William Albert of Grand als
- Birmen of Cythere," the completed figure (modler view) 5163
- of 13 Murcus Aurelius, house equations statum on the Captus, Round
- The Idolline," Eropt will back views. Recents. Placemer, Man. Sect.
- A principal." Branco araturpus from Noni R.M. TERM
- 1885 · Amilior view. 30 W.E.
- 1500 " the living there golden retire.
- Bronze beling: designated at Olympia by Hieron, not, 474 Etrusian. IEM. 2222
- Arric, fauril, outry a Karalmena us. Saluniba. (See also 8897.) 122774 Bill Big .
- resample " gallator. Brown statuette. R.M. **FR95**
- 1-71 Apotto," similate turnico la alarge from tirth comt. Error un compos ar ten filome Miss. V. Ginila.
- 1475 a souther recent profiles
- 1474 · head only, 14
- Marmon " head of strike tetracotta status from sixth and Etrusian Comple. Yell. 1475 Home, Mar. V. Ohlla.
- Rody of stag and had of Harakhas from with sent. Electron imaply, Vat. Rioma, Mira, I. Ginlia.
- 1981. Stucci cellela, "ingel figure. Formith, flower,
- 1507 Etimes degoration from small in the Via Latina. Rome.
- 7803 Panathaman ampuera from temple of Athena Chalkinko Sparia i sevene of 7425, charrot (M. S. J. iii ph val
- (49) R.T. Kylix 2 Januar special from manth of accommuter. Mone, Mrs. Greg., Val.
- Chasses, france of M.M. III period. Fish, etc. Scaper, Courses of Fact way, 1277 pl 28.
- Paintief decetation from bould in the Via Latina, Run a 4588
- Soon or massic from Vergil composing the Acadid. (Mon Plan ev. pl. 22.) 1002
- Eliten (Tetpolis), man from Gladiarectal armony well trainers or Pul-

Ixxxii

- art H Traids, Warrior was " of extract stratife.
- 1910 The Tenes Copulation * Rome, Mus. Conservation.
- 1219 Fragment of the Total Cagnition, B.M.
- 22) Probablemic inscription from Lemmas, J.S. vil. (188, 1 Athens, Not. May No. 1200)

SUBJECTS ILLUSTRATIVE OF DAILY LIFE OF GREEKS AND ROMANS.

For a fail description we the British Moscown (Feet and Ziones Dade Life Onide, 2nd ed. 1925.

- 2173 Welting materials. Stylus 4), cotrakon with spolling energies inkject, tablet, closed and open. It M.
- 227) Tables showing undisplication table and reading excesse. From a drawing,
- 2080 Hall a writing tablet. H M.
- 2027 Outinkois with spicilling coording (2173); from a drawing,
- 2022 Pading and writing leave Terrapolite groups 11.31.
- 2085 Reading from a world. Spale of Avilla, agod 10. B.M.
- 2090 Demontic importante: serssors placed; and Roman's Roman thinkle and modificant, knows | D.M.
- 2035 Reduction or spinning instrument It M.
- 2200 Thunseron in the Wass painting. Min of feet, ix pl. 421
- 1237 Elli me les ejümtkone tallides partier.
- 2001 Toller objects. R.M.
- 2000 Kooken alemals : bronne, Roman, E.M.
- 1827 a mai'd. Bouch, beann with effere inley and every rings. Roman B. M.
- 2014 Linnin from Pontiell, and lankern : looker, Roman: E.M.
- 2062 Toyer dille Gireck and Egyptiani, plained mat, has leav, home whiche, Kill
- 3598 Toy built from Amerikas in Cyprox termsoim. B. M.
- 3500 Toy hip from Amathree in Oppose : bernejella. B.M.
- 3597 Hilbertani Juggler with ups and cat: terrachità lamp. Roman. B.H.
- 2989 Ballilling tools : liammer head, set squares, plummer and saws Roman B.M.
- 2176 Stempard from current Boman. B.M.
- 2210 Party paners from Policina ; bronze. Roman. B.M.
- 22104 a section and reconstruction.
- 1923 In artial correspondences to during prouse. Week. R.M.
- 1829 Votice relief, abouting two plains of hair declinated to Providen by Philomhrotte and Aplicanton; marble R.M.
- 2005 diagrama's tickets (Athens, 5th mar. p.u.) bronce, and marribed octraken (Nankcatta), 11.31.
- 1823 Corneticus, 25el cut a to bronze Roinin. H.M.
- 2222 Slave-badge, 4th cent. a.t., remove Reman, R.M.;
- 2228 Williams, them in New Tulling, a. p. 240; hours. Remeta 2, M.
- 2230 Tim Septemb (2258) Instirred.

THE BRITISH ACADEMY

CROMER GREEK PRIZE

Wirm the view of maintaining and encouraging the study of Greek, particularly among the young, in the national interest the late Lord Cromer founded an Annual Prize; to be administered by the British Academy, for the best Essay on any subject connected with the language, history, are literature, or philosophy of Annual Greece.

The Prize, which is ordinarily a sum of £40, is awarded annually in March, under the following Rules —

- 1. Competition is open to all British subjects of either sea who will be under twenty-six years of uge on 21 December preceding the award.
- 2. Any such person desirous of computing most soul into the Secretary of the British Academy on or before I slune of the year preceding the award the tale of the subject proposed by him or her. The Academy may approve (with or without modification or disapprove the subject; their decision will be intensited to the competitor as soon as possible.
- 3. Preference will be given, in approval of subjects proposed, to those which deal with aspects of the Greek genius and civilization of large and permanent significance over those which are of a minute or highly technical character.
- 4. Any Essay already published, or already in competition for another prize of the same nature, will be inadmissible: A candidate to whom the Prize has been awarded will not be digible to compete for it again. But an Essay which has not received the Prize may be submitted again with or without alteration) in a future year so long as the writer remains eligible under Eule 1.
- 5 Essays of which the subject has been approved must be sent in to the Secretary of the Academy on or before 31 December. They must be typed (or, if the author prefers, printed) and should have a note attached stating the main sources of information used.
- It is recommended that the Essays should not exceed 20,000 words, exclusive of notes. Notes should not run to an excessive length.
- 7. The author of the Essay to which the Prize is awarded will be expected to publish it (within a reasonable time, and after any necessary revision), either separately, or in the Journals or Transactions of a Society approved by the Academy, or among the Transactions of the Academy.

The Secretary of the Academy will supply on application, to any person qualified and desirous to compete, a list of some typical subjects, for general guidance only, and without any suggestion that one or another of these subjects should be chosen, or that preference will be given to them over any other subject of a suitable nature.

Communications should be addressed to The Secretary of the British Academy, Burlington House, Piccadilly, London, W.

FREE CONSWALL PRINCE LIBERTO.
FARM GARRIES, STARFORD STREET, S.L. I.

THE ORIGIN OF THE GREEK MINUSCULE HAND.

[BEATES E-III.]

I exceptions a question which I cannot answer. The period at which the Greek minuscule hand came into the world withdraws itself from direct avidence, and can only be approached by induction from dates apparently considerably distant. I have, however, facts to detail which do not seem to have been combined elsewhere, and which admit of a conclusion which I believe has not been drawn. And though the conclusion may not be right, the subject is of enough importance to justify a guess. With all the discoveries of papyrus and the survivals of uncual, the minuscule hand of the ninth to the sixteenth centuries is that in which we read nearly all our Greek classics and imitated by the first printers has given us our present-day Greek type and modern Greek writing.

No tradition remained in Greece of the place, manner or date of the origin of this hand. Of late a mistranscription of a sentence in the fourteenth century MS. Canonici grace. 23 by Cramer (Am. Oz., iv. 400, 5) has given rite to some singular speculations (Gardthausen, Gr. Pul.2, p. 205). The «enteno» runa (f. 218 v.) έπὶ της βασιλείας κυρο και είρηνης εύρίθησαν γράμματα κεκαλαμένα. χρυσός (χό) μέλαν μέ). References have been seen here to the invention of minuscule, or of stenography. It has even been proposed to after sessonau a ion. But conductor and eyeconautros are common in Byzantine writers and practically synonymous with yapasoeur. духаравить, е.д. Procepins, Bell Goth, iv. 14 урацията букскохантая оп the stone ship at Coreyra (= feedferra below): i. 15 einova hilly bykenohap. μένην: Bell. Vand is 10, στηλαι όνο . . . γράμματα Φομνκικά έγκεκολλαμένα Σγουσαι: Αποεά. 44. 19. Είλφ είργασμένω Βραχεί έγκολαψαντές μυριδής тип уранийтые теттарые, i.e. a stamp; Theophanes, 704. 14 (4.0. 773) в sarcoplayus was dispovered and aconcersions object apapa setuevov en γρώμματα εκκολομμένα έν το λάρνακε πεμιέχοντα είδε κ.τ.λ., Leo Gramm. 270-273, a coffin, хорга гововег уранцията кекоданиева урафіята обтю; ій. 198. Г. втурофия ні то пропитов пітов радам катерто ; 226. 18 ! = Georgius Man. 807) κατακειτήσας και έγκολαψας τους στέχους είς τας J.H.S. - Vol. XI. BB.

όψεις αὐτῶν.' Compare Du Cange in κεντητόν. The word means the cutting of incised latters on stone or wood, or introduced the human skin. The invention ascribed to the reign of Irene by the writer in Canonici 23 consisted in the filling of these letters with an alloy of gold and lead. For μέλαν = lead see Du Cange εν ει 'aprod pictores μέλαν dicitor Encaustum nigrum ve) subnigrum, ex plumbo et argento confectum, quo cavitas scripturae repletar. The Curopalates was presumably Michael who let Plato. Theodore, and Joseph out of prison: Theophanes, 760, 20. The passage continues, έπὶ τῆς αὐτῶν βασιλείας ἐγένετο καὶ ἢ ενικαία σύνοδος, ἀπο γοῦν τῆς στ' συνοδου μέχοι καὶ τῆς ἐβδόμης ἐπληρωθησαν χρόνοι κ ἔως [1] ταρασίου τοῦ ἀγιστονου πατριαργου. This conneil met λ.D. 787.

I begin therefore with the oldest known minuscule MS, the Uspensky (lospels of 835; MS, No. 219 in the Petrograd Library of which, after several poor specimens? a good facsimile (Plate I.) has been published by Zeretali and Sobolevsky in their Exemple. I now most of my information to the letterpress of this collection and to Zeretali's article in a Russian journal called Στάδανος translated in the Byzantische Zeitschrift for 1900. (Zeretali quotes his compatriot Melimanski in a publication inaccessible to me.)

This hand is small and upright, elegant but not remarkably regular. It is not angular, like the next minuscule book of 861 (to judge from the tineing in Boes's article. Kevne des Etudes greeques, 1913, 52 sqq.), nor massive like the Euclid. Aristotle, and Plato which we find at Patrae from 888 to 895. The writer and an elegant hand and wrote it at his case; the impression of ease is increased by the omission of mute iota. Ligatures combine consecutive letters and what is more striking, many separate words (e.g. v. 3. µalwigarities are noticeable: (1) kappa has a perceptible tail which projects below the rest of the letter; (2) the ligature of (e.g. col. 2, lines 7 and 8) resembles the usual ligature of (and hence probably does not recur) in the notes (xoppigets) at the end of she book 5 the writing is from, and some ligatures and strokes recall papyrus (e.g. eta, lota, \$\lambda_s^2\$).

Such a hand, though not as rapid as later minuscule, and of course much less rapid than tachygraphy, might, compared to the contemporary uncial, be thought wonderfully swift. It is as it stands perfect, no essay; much minuscule must have preceded it.

This book very fortunately bears a signature, which gives us us date

Cf. also Chimanus 25d. 10, alfair Francisco et procedor. Number Chim. 41. 1.

Gardinamon, Beitrige nor gr. Pal. 1877, Tal. 2, repeated by Wattenbeen und von Volum Exemple, 1878, Plate 1, Zeratell, Hyr. Zerackejn, 1990, p. 649.

the writing an amorning of the contract.

orum. Vol. ult Petropolitani: Mosquin,

Nor does it particularly resemble the later stath century products of the house of Stadion, Mosq. 117 (a. 889), Paris are 1470 (a. 800), Mosq. 184 (a. 890), or Val. 1660 of a 910.

^{*} Those will be found in a photograph or Zeretoli's article.

and the name of its scribe, not, however, the place where it was written I. 344v. ἐτελειώθη θεοῦ χάριτι ἡ ἰερὰ αὐτὴ καὶ θεοχάρακτος βίβλος μηνὶ μαίω ζ ἐνδικτιῶνος τζ ἔτονς κύσμου ττική δυσωπώ δε πάντας τοὺς ἐντυχ-χάνοντας μείαν μαν ποιείσθαι τοῦ γράψεαντος εικολάου άμαρτωλοῦ μεραχοῦ ὅπως εθροιμι ἔλεος ἐν ἡμέρα κρίσεως, γένοιτα κύριε ἀμήν. The scribe was identified by Melioranski with Nicolans second [later] abbot of the Studium, of whom we have a life in Migne, vol. 105, on the ground that the MS, also contains the κοιμήσεις of three ecolesiastics who are connected with the Στούδιου.

The xample ex are:

- (α) ετελειώθη εν κω ο οσιος και θεοφορός πηθ ημών πλατών ο του χῦ σμολογητης ο μεγας τοις οικουμένης φωστηρ μονι απρίλλιω δύο τι ξ ημέρα δευτέρα. No year is given for Plato's death, but it is computed to have occurred in 813.
- (b) ετελειώθη ο εν αγιοις θεοδώρος ο κοινός πηρ ημώς καλ νέος του χύ ομυλογητης πολλούς δρομούς και αγώνας διανοί = ύ[σας εν τη αμώμητω κας αληθεύ) των χριστιανών πιστεί· πολλούς το φωτίσας και οδηγησας εις επιγνωσεν ευσεβείας και σριάς μηνός μαρ[τ]ιω ια ενδ ε ημέρα ά ετους δε από κτεσεώς κοπμών ζ τλε [826].
- (ε) ετελειώθη α εν αγιως $\overline{\tau\eta\rho}$ ημών εωσηφ ο αγιωτάτος αρ επισκ θεσσαλονικής, και νεος του χύ ομολογουμένος εν κάλη υμολογιαι καὶ μαρτυρία θανών έπερ τῆς αληθείας μηνι [ί] ινδ $\bar{\imath}$ ετους δε κοσμού $\bar{\zeta}$ τῆ [831].

The three persons mamed coincide with three saints of the orthodox. Church: Plate, abbut of Saccudian, a monastery on Olympus, and resident in the monastery of Studius. Therefore a more celebrated polemist and hymnographer, abbut of Studius; and Joseph who, as described, was archibishop of Thessalonica and perished under Theophilus.

These people were connected: Plate was the uncle of Theodore and Joseph, who were brothers.

Seeing then that these three cutries concern one a resident in the house of Studius, the next the celebrated abbot thereof and the third his brother, there can be no doubt that the Gespel itself belonged to the Studium, was written there, and that Nicolaus, the scribe, was the second of the later abbots of Studium of that name. The hand, therefore, was the Constantino-politan hand of the period, and Gardthausen is arong in maintaining that the book was written in the momentary of Saint Sabas at Jerusalem, where Uspensky found and bought it—and that the hand is consequently Palestinian.

The Russian scholars are unquestionably right here. Even if these entries were copied entire from the original, it is not likely that a non-Studite scribe would have included them in a book belonging to another convent; and it is also not likely that a Studite MS; of 831 (the date of the latest entry) should have travelled to Jerusilem before 835.

We have then to regard the earliest admissable book as the product of the Xvoccion. About this house and its immates we have a good dead of information. The texts have been collected by the Abbé Eugène Marin, de Studio coenobio Constantinopolitano, Paris, 1897, and there is an interesting sketch of the establishment in Miss Alice Gardner's Theodors of Studium, 1905. This place, of which the church remains, converted into a mosque, in the south-west quarter of Constantinopie, was founded in 462 or 463 by a Roman, Studius, who was consult with Actius in 454.

Suidas Στούδιος δυναστής δς και την περιβόητον μονήν ξετισεν· ή τῶν Στυδιτῶν μονή πρότερον καθαλικής ἐεκλησίας ἢν, ῦστερον δὲ μετήλθεν εἰς μονήν. ὁ αὐτὸς Στούδιος δυναστής κτίζει τὰν ναὰν τοῦ ἀρχιστρατηγοῦ Νακαλείας, ἐν ὁ φέρονται και στίγοι ἡρωικοί

> Στούδιος άγλαον οίκον έδειματο καρπαλίμως δέ ών κάμον εύρατο μισθον έλων ύπατηίδα ράβδον.

He therefore built the church of St. Michael at Nacolia first, became consul in 454 in consequence of this good deed and subsequently built the church to which his name was attached. In the chronicles the word (Στουδίου) is usually in the masculine. As Michael, the biographer of Theodore, says (Migne, 99, 145 a): ἀνήρ τις τῶν εὐγενῶν και τὰ μεγάλα δυναμένων ἀπο 'Ρώμης ἐπαιήκων, Στούδιος τῷ ἀνδρί δυσμα, Εὐπρεπείων δε τοῦτον ἡ καθ ἡμῶς γλώσσα οίδε καλεῖν, δε και τῷ τοῦ πατρικίου και ὑπατου τετίμητο ἀξιώματι, οὐτος τοίνυν ἐνταυθοῖ κατεσκηνηκώς και παυτα τὰ αὐτοῦ δια μέγεθος ἀρετῆς τῷ θεῷ ἀνατεθεικώς, και τὸν περιφανή τοῦτον σῆκον τῷ μεγάλο Προδρόμω και Βαπτιστῷ ἀνιστὰ, μουαστῶν καταγώγιον ἀποτάξας αὐτοῦ.

The earliest mention of it is in the Chromicon Paschale for 465 (726-18): ἀπετέθη το λείψανου αυτού [του Βόνου] είς τὸ εκπτύν μουαστήριου του άγίου Ίωάννου του Προδρόμου και Βαπτιστού τὸ ἐπονομαζόμενον τῶν Στουδίου, πλησίον τῆς Χρυσῆς Πορτῆς: cf. ib. 594-15.

The foundation was on a large scale: 700 monks were there under Theesdore. Theophanes, 747-10. A writer shortly before the Latin conquest (when the house was destroyed) gives a description of it which shows it as suitable for learned leisure and rivalling Monte Cassino, or Grotta Ferrata, or the Armenian convent at Venice: κατοικώ την αεβασμίαν τοῦ Στονδίον μονήν οὐδις τῶν βαρβάρων ἀνθρωπων εἰς πρόσωπου με ὁρῷ, οὐδι τῆς φωνής μου γυνή ἀκοιες και το αίτιον ὅτι χίλια ἔτη ἀφ' οὐ ἀνήρ ἄπρακτος οἰκ εἰσῆλθεν εἰς τῆν μονην τῶν Στονδίου, οὐδι θῆλυ γένος την αὐλην ταύτης ἐπάτησε. διάγω ἐν κέλλη παλετίω ὁμοία κηπος και παραδείσος ελαιῶν και ἀμπέλου κύκλωθέν μου, ἡμεροι κυπαρισσοι και εὐθαλείς ἔμπροσθέν μου, ἔνθων ἡ πόλις και ἡ ἀγορά, ἐκείθεν ἡ μητηρ τῶν ἐκκλησίων και ἡ βασιλεία τοῦ κόσμος. The only thing be omits is the view of the Bosphorius (dosejih Bryemins, quotod in Byzantios, ἡ Κωνσταντινούπολις, περγραφή τοπο

Issue and John Commercia were religional (Nicophurus Bryonama 18, 12) and have Take realized to the Michael Avvallage, 67:

^{*} But afterwards restored, Nicephorns Gregoria i, 160, 16

The memoriary continued to be one of the most important in Communitions. Here

ypadiscij etc., Athens, 1851, vol. i. p. 308—no doubt from the edition of Joseph Bryonnius's work by Bulgaris, Leipzig, 1768-84, which I have not seen.)

The foundation came early into the hands of the 'Assignes.' This order is heard of at least as early as 491 (Theophanes, 219. 5). They always included in their rule the occupation of writing books. S. Marcellius, archimandrita (20 December) is said to have made his fiving by copying books. There are, however, few mentions of them in the fifth sixth, and seventh centuries. The brethren as Marin says, were preparing themselves in ellence for the warfare of the eighth century. Here they defended the orthodox faith against the iconoclasts, and mention of their abbots is frequent in the chroniclers. In 775, with the other monks of C'pal, they were expelled by Constantine Copronymus. But better days were not long in coming if the empirors were at best lukewarm down to Basil the Macadonian: we find the names of Sabbas, abbot of Studium, and Plato, abbut of Saccadion, appended to the acts of the synod which restored images in 787.

The roles of the house under Theodore have been preserved, and were published by Mai from two MSS., Val. 430, f. 20, and Ottob. 350, f. 14 (Patrum nova hibbiotheca, v. 83 κρη., 1849) *; they are headed τοῦ όσιου πατρος ημών και όμολογητοῦ θεοδώμου ήγουμένου τῶν Στουδίου ἐπιτίμια, κοινὰ τῆς δλης ἀδελφότητος ἐπὶ τῶν παραλειπόντων ἐν τῆ ἐκκλησία εἰς τῶν κανόνα. Αfter regulations περί τοῦ κελλαμίτου, τοῦ ἀψοποιοῦ, τοῦ βιβλιο-φύλακος, τοῦ σκυτέως we find (κγ-Ε) περί τοῦ καλλιγράφου.

νη , έδε υπέρ την χρείαν ποιών κύλλαν σήπη αυτήν διά της απομονής. μετάνοιαι ν

υδ΄, έδυ μη φελοκαλώς κράτες το τετρώδιου, και τίθησε το όφ' οδ γραφει βιβλίου, και σκέπει έυ καιρφ έκάτερα, και παρατηρείται τά τε δυτίστεχα και τους τόνους και τός στυγμός, όνα μεταυνίας λ΄ και φ'.

νε. ἐάν τις ἐκατηθήσει ἐκ τῶν γεγραμμένων τοῦ ἐξ οῦ γράφει βιβλίαυ. Επροφαγείτω:

νη, λάν τις πλέον των γεγραμμένων άναγνώσει έξ οδ γράφει Βεβλίου. Επροφαγείτω:

νζ, εί θε θυμόδ συντρίψει κάλαμον, μετάνοιαι X.

νή, α επάρη έτερος έτερου τετράδιου άνευ γνώμης του γράφουτος μετάνοιαι ν .

νθ', εί μη στοιχείη τους τετυπωμένους παρά του πρώτου καλλιγράφου, άφοριζίσθω ημέρας δύο.

ξ. ἐὰν ὁ πρωτοκαλλίγραφος ἐμπαθῶς διανέμη τὰ ἐργόχειρα, καὶ εἰ μὴ περιστέλλη καλῶς τὰς βεμβράνως καὶ παντα τα ἀμφιαστικά ἐργαλεία, ῶστε μήτι ἀχρειωθῆναι τῶν χρησιμενώντων κἰς τῆν τοιαύτην διακονίαν, ἀνὰ μετανοίας ν' καὶ ρ' καὶ ἀφορισμον ἐπετίμησον.

[neravotat, penances, consist of more or less complete prostrations and gamiflexions.]

for a new ten (400) on Traches the sate forces to the house, and now your do the point the Associate to note conference, The options, 170 d.

Ol, s.g., The slove's raply to Lee Armonius. Georgius Mouschus, 767 = Semena, 608.

^{*} Repressed in Migne

These very detailed regulations, and also those relating to the Librarian, imply that the copying of books had been for a long time a regular part of monastic life among the monks of Studium. Taking the other statements together with them we may fairly suppose the writing of books had been carried on there since the foundation. Therefore will have revised the practice obtaining before the persecution of Copronymus.

But so far we do not know what hand was in use there; there is nothing to show that Studite books down to 800 were not all in the uncual of the

period:

Our further knowledge is due to the amiable habit the Studites had of writing doges and obituaries of each other. Theodore wrote a life of his unals, Plato, there are two versions of a life of Theodore bearing the name Michael (in Migne, vol. 95), and there is an anonymous life of his successor Nicolaus, the writer of the Uspensky Gospels (Migne, vol. 105).

All these three generations of the eighth and ninth century took an interest in the scriptorial department of the monastery. Theodore says of

his uncla :-

5140 ού γάρ έπειδή εύγενης το κατά σώμα, άπετραχύνετο τοις άγροικοτέροις συεδιαιτώμενος... τοιγαρούν και κόπροι έπι ώμων έπεφέρετο και χώρον άρδειαιν προσετάττετο και άλευρα φύρεω ήνείχετο και ταθτα μετά τοῦ γραφείν τόνω παλλώ και έπιμελεία κρατίστη.

3180. χειρών έργασια δια απουδής τούτο γαρ των έκεινου κατορθωμάτων παρά τούς πολλους ίνα μη λέγω τους παντας, το έπισημος, η μάλλου, οίκειστερου είπεϋς, σύν τῷ ἀγίῳ ἀπαστάλω φάναι [Acts xx, 34] αὐτοί γινώσκετε ότι ταις χρειαις μου και τοὺς οὐσι μετ' ἐμοῦ ὑπηρέτησαν αι χείρες αὐται. ποια γάρ χειρ τῆς ἐκείνου δεξίας μουσικώτερου ἐσυρμανος αι τος ρα το γράφησεν, ἡ τις ἐπιπονώτερου τῆς ἐκείνου προθυμίας ἐσ που ἀα ι αγράφησεν, ἡ τις ἐπιπονώτερου τῆς ἐκείνου προθυμίας ἐσ που ἀα ι αγράφησεν ἡ η σευ; και πάν ἀτιοῦν προσπεσών ἔργου θερμώς διεχειρίσατο. πῶς ἀν τις ἐξαριθμησενει τοὺς τὰ ἐκείνου πανήματα, εἰτ' οὖν βιβλιδαμια ἔχοντας ἐκ διαφόρων θείων πατέρων ἀνθολογηθέντα και ἐκατην ποριζόμενα τοὺς κεκτημένοις τὴν ὡφελείαν; τοὺς καθ ἡμᾶς δε μουσίς ποθεν ἄλλοθεν ἡ τῶν δέλτων εὐπορία; ἡ οὐγὶ ἐκ τῶν ἐκκίνου ἀγίων χειρῶν και πόνωνι ᾶς οἱ μετιώντες καὶ τῆν ψυχήν ψωτεξόμιθα, και τὴν γραφίδα θαυμάζομεν ὁποία τε καὶ ἡλίκη.

Plate produced a great deal with his own pen, especially Catenae of the Pathers, and the next generation counted many of his backs in their libraries. His pen was remarkable both for its abundance and its character. The character is denoted apparently by the epithet έσυρμαιογράφησεν, the meaning of which we must leave till its next occurrence.

Of Theodore it is said with A, 152 B) .-

μνημονεύων δι Δεί του μακαρίου Παύλου είρηκοτος ότι δωρεάν άρταν οὐκ έφαγου Δλλ' αι χεϊρες αύται έμοι και τοις συν έμοι διηκόνησαν [αν buloto], έργάζεσθαι και αύτος ήθελε, πάντυτε τας χείρας ταις δέλτοις κινών και τὸν ίδων κόπου τοις έργοχειμοις συνεισφέρων των μαθητών. Εξών και τινα τών βιβλίων έτι μένουας παο΄ ημών τής αὐτοχείρου γραφής κάλλιστα όντα πονήματα. Fate has denied us the possession of any of the works of the hands of

Plato and his nophew.

Theodore was followed by Nicolans: he in his turn has an obituary, and although the terms relating to his hand were borrowed from the oration on Plato (as these obituaries evidently utilised much common form, of that on Theodore above), the fact that we have two specimens of his work, the Uspensky Gospels and Coislin 269, ff. 97–286; enables us to interpret the terms:—

και γούν πρός τη έμπρακτω πολιτεία το και διαγωγή ούδι της δε τών έργων κοινωνίας τοις άδελφοις έπισης απελιμπάνετο άλλι ήν ταις χερσί κυπιών και δέλτους άριστα συρμεσγραφών εί και τις άλλος είμαι τη ώκυτητι χειρών του 'Ασαήλ έκεινου έπι τη τών ποδών έξισουμενος και μαρτυρούσιυ αι τι Βίβλοι και τα έκεινου ποίηματα.

We find, therefore, here that συρμεογραφείε and speed (ώκθτης) are prodicated of the same hand; no one can write uncial. Slavonic or other fast; it is essentially a type of hand that demands deliberation (σπουδή, and time.

The strokes are long and finished in an artificial manner.

On the other hand, we can hardly suppose that Plato and Nicolaus wrote tachygraphy; excerpts from the Fathers and Gospel-books were not so

large as to require stemography;

The metaphor contained in suppe- or supposeppadeir is incertain. Suppose in the classical writers, is applied to what Liddell and Scott call any lengthened sweeping metion, but not to writing. Supposia, which is nearest in point of form, and old, is no doubt a derivative. In Byzantine usage Hopita and its derivatives meant 'cloth' or web, often of cloth of gold and the like See Du Congo in Loojia Lupharrives, etc. That is to say some: thing drawn out or weaved. The precious metals are not necessarily implied. Applied to writing we find evicyper among Anna Comments phrases to drug the pen, i. 74, 19. πρός λύχνον έπισυρούση του κάλομου; ii 200. 3. προς λύχνων άφας του κάλαμον έπισυρουσα. Rather nearer is Steidanus' quotation from Lavian, dial merele, v. 3, τὰ γράμματα οὐ πάνυ σαφή άλλ' energyopera, onhower evergir two too ypannation. This word can only mean dragged along, i.e many letters aritten with one stroke, what we usually call ligatured. This, says Lucian, betokens haste on the part of the writer, and Nicolaus' suggatoypadia is, as we see, another way of describing his speed. His hand, then, and that or his predecessors combined continuity, like that of a web or cloth, for instance, cloth of gold, with speed. This can only apply to the new book-hand, compared to uneral ligatured and hast, The Uspensky Gospels, compared to contemporary uncial, present this charmeter.

We therefore conclude that both Plate and Nicolaus wrote minuscule as we see the latter did, and that the hand was not so familiar as not to be admired for its speed. This hand will have been in existence by the middle of the eighth contary. For if Plate died at the age of seventy-nine in \$13, and was therefore born in 733, and we may be sure that he furnished his task of writing like other monks and scholars (e.g. Photius in the next

century) when he was a young man before he was called to government and controversy, we see him writing his συρμαιογραφία between 750 and 760, and there is no reason to suppose that he invented his land.

This is as far as inference from the first minuscule book, and the lives of the Studites, enables us to take back the minuscule hand. The question next arises from what earlier type of hand was the minuscule of the eighth century derived? The nearest hand in point of time is the cursive of the papyri found at Aphroditopolis, the modern Afrodito. These were written at the beginning of the eighth century and therefore after the Arab compaest of Egypt and not much more than a generation before S. Plato's labours began. Specimens have been published in the Atlas of the British Museum Catalogue (vol. iii, 1967, plates 96–100), the New Palaeographical Society series 1, plates 76, 152, 153; and two small pieces (one from Afrodito pap. 1448 = New Pap. Soc. 152 and one acquired earlier, pap. 92) are given in Sir E. Maunde Thompson's Introduction facs. 41 and 42. Mr. H. I Bell has with great kindness allowed me to inspect a selection from the unfaceomiled Afrodito papyri.

The hands seem to me to full into pointed and round, and the latter ing pap. 32 and a vellum scrap, pap. 116 B) look more like minuscule at first sight. The hand is nearest in time to minuscule, and understredly resembles it more closely than any other known hand. It is maintained e.g. in the manuals of Manada Thompson and Gardthausen, that it is the direct parent of minuscule. This I doubt, on the ground that if we are now able to put minuscule back to a.D. 750, there does not seem sufficient time allowed for the papyrus cursive to develop into the minuscule change, and the similarity of the description given of Plato's and Nicolaus' hands to have been materially the same in 750 and 835).

To anyone familiar with minuscule books it would appear that the Afrodite hand and the hand of the Uspensky Gospels are altogether unlike, and that the dashing papyrus hand, with its enormous tails and nooks and the next prim letters of Nicolaus, are at opposite poles. Similarity and dissimilarity no doubt are subjective matters and for a balanced judgment an observer probably is wanted equally at home with papyrus and minuscule. The question at issue is whether the hand of 700-710 could have developed into one resembling the hand of the Uspensky Gospels in about forty years. To me, even when we imagine the tails or stocks' legs cut off and the sweeping hand regulated and stylised to suit a small page, this seems very unlikely. The elements of the letters are of course the same, but there are many divergencies in the formation. The points of difference which strike an eye accustomed to minuscule are the following. I quote from pap, 1448 (Plate II.).

 The enormous upward and downward strokes attached to lambda, hooked in the case of iota, mu, tho, phi; the tall upstrokes of cta and kappa. These tails, which Gardthausen compares to storks' legs, needed to be pruned and dropped if the hand was transferred from scrawling domiments with unbounded material to the production of books with a small limited page.

- 2. On the other hand two letters which in minuscule have tails, viz gamma and no, in this specimen of the Afrodito hand do not descend below the line. In minuscule gamma has the longest tail of any letter nu is assimilated to mu, and adopts its tail.
- 3. In the Afrodito hand we notice a very small delta, resembling a minuscule semi-uncial alpha. The minuscule delta allows itself considerable scope, and soon expands into a kind of balloon. Omega in early minuscule is usually closed.
- 4. The open signer of papyrus altogether disappears, and is wholly strange to minuscule, in which it would suggest a tachygraphical epsilon. This is perhaps the strangest point to a mediacvalist in these papyrus bands.
- 5. The common minuscale ligatures for as and so are in the papyrus hand, but that for on is differently formed; the right-hand stroke is straight. (This begat the form which I have found in Coisin 120.)

In another published specimen of these hands (Pai, Soc. p. 153, papyras B.M. 1448) we find enormous tarcs. In minuscule tau is a short letter, and the long tail remains only in the lighture $\tau\tau$ found in early minuscule. Gamma in these papyri has its exact minuscule form, but its downstroke in the papyri is short compared to those of the and tau. Nu in the papyri has the modern printing form, which minuscule never develops. Pi shows a form quite different from minuscule, and the common lighture for $\sigma\tau$ is open. The specimen of pap 32 (Maunde Thompson, No. 42 reduced) is nearer minuscule, inasmuch as the letters are rounded. It has, however, most of the differences I have noted, including open sigma and a sprawling nu, and is on a very large scale.

Accordingly I conclude that the Studite hand of \$35 and its predecessor of 750-760 are not the direct descendant of the Afrodito hand of 710, but are the development of an earlier stage of papyrus cursive. And that this is not merely personal impression may appear from further evidence. We have what appears to be an example of a papyrus hand directly adapted to books in the Sinaitic minuscule to which we proceed. This hand is entirely unlike that of the Uspensky Gospels. If the Afrodito-hand had been adapted, within about fifty years to book-writing, it must have produced something like the difficult Sinaitic script in which papyrus characteristics remain unchanged. The Studite συρματογραφία would appear to be the fruit of a longer development from an older hand,

The actual minuscula hand did not establish itself without a struggle. An attempt was made in the eighth or much century to adapt the cursive papyrus-hand, in use for documents, directly to books. We have four specimens of books in this hand:

 Petrograd cod: Uspensky I. A small book on valling. A facsimile in Gardthausm, Beitrage 2: gr. Pal. 1877; Tal. 1. 2 Sinai No. 591, on vellum: A tracing in Gardthausen. Melunges Graux, p. 733.

3. Sinai No. 824 on paper.

4 Vaticanus 2200 (Colonna 39) on paper. Facsimiles in Pitra, Analecta Sacra, ii 1888, Palaeographical Society ii, 126 (small pieces in Maunde Thompson and Gardthausen), and in Cavalieri-Lietzmann, No. 5 (reduced). I reproduce one of the pages given by the Palaeographical Society (Plate III.)

This singular book measures about 265 x 150 mm, is arranged in quaternions ruled only on the inside of the central sheet, and is on thick brown fibrous paper. It contains the Doctrina Patrum (ed. Diekamp). On f. 410 it has a glossary περί δυσνοήτων λέξεων και δνομάτων heginning auxaia at coprisa (sio, i \$12 a list of onueia or abbreviations These are partly hieroglyphic as ovpavor, you banassa, moranol, and alphabetic such as ovona, ovonava, carre, etc. The hand, though it may be called handsome, is so difficult as to dely any expert at first sight. The difficulty is due to the compression of its large character; the ligatures are excessive and too many letters are like one another. Its principal fault is that it takes too much room. The letters of one line ran into those of the nosi. Hence most accents and breathings are omitted. The characteristics are taken directly from paperus, ir the ball eta with a shoulder, the cursive hu, the open sigms, and the extraordinary ligatures, like a rearing horse; entirely foreign to minuscule, rey and roby. The waste of space and the want of elearness compared to the uncial bookhand (which survived) were probably fitted to this hand. There is no trace of it after the ninth century at latest The origin of the book is unknown beyond the Coloma collection. other three point to the East. The Petrograd book is said to have come from Athos and was probably not original there; the other two are at Sinai. The material (paper in two cases), three hundred years earlier than olsewhere in the West points the same way. None of the examples are dated. I am told that Vat 2200 need not be later than the eighth century. We seem to have an attempt of eastern, perhaps Similtie, monks to superseds uncial by a direct adaptation of contemporary cursive.19

The result of the direct animodified transference of a papyrus-hand to books appears to have been this remarkable hand. We may argue that if the Afrodito hand of 700-710 had been used for books in 750 it would have given a hand of similar confusion and intrinsecy. As the earliest minuscule is a perfect unexperimental hand, differing tota code from anything carrier that can be produced I conjecture that it descended, through a period of a hundred years from a different cursive, perhaps more apright. This may have been Constantinopolitan. The specimens of papyrus which we possess are, naturally, Egyptian, and there seems no reason why Byzantine

or The congruents of the Codex Bears, which more or best resemble that hand, have been referred along with the whole MS, to

the Greek East by Dr. Low (Journ. Theal Stad. 1918, xiv. 385, eqq.)

cursive used on vellum as well as on papyrus, should have been identical with Egyptian. Further, a period may be suggested for the application of Byzantine cursive to books and for the davelopment of the other characteristics of Byzantine books, namely, for the extinction of the roll, the exclusive use of the book-form, and the habit of always utilizing both sides of the page. What induced the world of Constantinophe during the Isaurian monarchy to give up the use of papyrus, to write books an vollum only, in book-form, on both sides of a page, and in a small hand which allowed the most to be made of the space.

The Afrodito papyri and also the youth of Plato fall within the latter part of the period which is sometimes called the Byzantine Dark Age, and extended roughly speaking from Heraclius to from. I do not think that Herachus and his successors, or the Isaurian house, intentionally neglected or destroyed ancient literature; but it was in their period that it perished. In the day of the last Neoplatonisis and of Stephanus of Bezantium it was extant in practically undiminished volume. When the images and been restored and the Revival began in Photius day there were only fragments. Accordingly the end of the heathen world, which may be marked by Justimian's closing of the Athenian schools in 525 and his persecution of Hellenes, may account for a great drop in the publishing trade and a corresponding failure in the supply of material. The cessation of pagen philosophy and the termination of the non-Christian world threw the business of literature and education entirely on the monasteries. It is natural that material should have been economised, and, with this object a small uniform hand adopted. Even strictly theological demands were very large in this period of acute controversy, and with literature also depending on the same class it is conceivable that a change in the form, make-up, and hand of books took place.

But a more important factor in the change was a political circumstance, the Arab conquest of Egypt and Syria. This is the most important single event of the age. More than the acceptance of Christianity, more than Justinian's closing of the schools, it marked the end of the ancient world. The most celebrated schools of Egypt and Syria-Syria which had produced meanly the whole of the literature, both profess and Christian, for many centuries-were overwhelmed with instantaneous rapidity. Alexandria, Jerusalem, Tripolis, Antioch, became Arab. The Arabs brought paper with them and used it alongside of papyrus in their Egyptum indministration. The Smattic Greeks, as we have seen seem to have experimented with paper for books. Walid at Damasens exclude goadenbar Exament robs δημοσίους των λογοθεσίων κώδικας, άλλ 'Αραβίοις αύτα παρασημαίνεσθαι, χωρίς τών ψήφων, έτειδή άδώναταν τή έκείνων ηλώσση μυνάδα ή budea ή τριάδα ή ώστα ήμισυ ή τρία γράφεσθαι Theophanes, 575, 13). and the same statement with its curious reason is repeated of the year 751 (ib. 664 9). Up to this date papyras had been the principal writing-material in Greece, and the source of pupyres was Egypt. This

now presumably ceased.11 and as paper is not found in Eastern Europe for several conturies to come, the Byzantines seem to have been reduced to

their biddepat.

The book-form writing on recto and verso, and the adoption of a small, comparatively quick, and uniform hand all result from this circumstance. Uncial remained, but to a diminishing extent. The new συρμαιογραφία, which was to expel it and which is traceable as far back as 750, must have taken its rise at this period namely, about one hundred years before Plato's birth. It must be presumed to be an adaptation of the cursive in use at the moment at Constantinople. Who, in face of the failure of the supply of papyrus, the costliness of vellum, the size and expensiveness of uncial, initiated a small rapid book-hand based on cursive, we do not know. Within a hundred years it was being produced at the Studion, and by 835 it was a fully developed band, long past the experimental stage, and which set the fashion for the following centuries.

T W. ALLEN

lator centuries the chromolous occasionally refer to trade with Egypt, e.g. Pashymeres ii. 505, Nicephorus Gregoras L 101.

If Their about A. B. 600 junyirus books still came from Egype to Grosce manns to follow from the expression scales \$138,000 in cast of Arethan latters (Kingans Anthur, p. 117). In

GREEK MUSIC AND ITS RELATION TO MODERN TIMES.

(Reing the Cromer Greek Prize Essay for 1919.)

1

In Greece the art of music was honoured as scarcely inferior to poetry itself, and in lyric and tragic compositions at least the two arts were almost inseparably allied. The religious and athletic assemblies, the Panathonaia, the Olympia; the Pythin, the Karnens, etc., were not complete without a goodly number of musical calebrations, and from quite early times un important musical contest had been held at Delphi in which the greatest singers and instrumentalists took part. At Athene the free-born youth was trained in the essentials of the art, and music was considered so much a part of the national life that innovators were not infrequently charged with aiming at the subversion of the state itself. Greek literature is so full of allusions to, and metaphors drawn from music; that a question of real interest and importance often presents itself to us how far are we in Europe, who have inherited so much in literature and the plastic arts from the Greeks, also indebted to them for our modern music? Is there, in short, any recognisable chain of descent from Terpander and Timothcos. to Beethoven and Wagner !

Strong negatives and affirmatives have been given to this question because of the doubt which exists about the real nature of Greek music itself. Some enquirers believe that amount Greek music contained the germs of that ecclesiastical system from which modern music has been evolved; others arriving at different conclusions deny that the music of the golden age of Greeke bears any real relation to that of modern times. This one point at least is certain, unless we can show that mediacyal music is only a later stage of Greek music, any search for a connexion with modern music is doomed to failure. The object, then, of this paper is to discuss the nature of Greek music itself, and to trace its history as far as mediacyal times.

It is common knowledge that the basis of the ecclesia-tical music of the middle ages was a number of scales, known technically as modes, which differed from each other in three ways:—

(1) Though they each consisted of five whole tones (T) and two semitones (S), the arrangement of these tones and semitones diffined in the various scales.

- (2) The chief note; or melodic centre, known as the Dominant, occupied different relative positions in different modes.
- (3) The note on which a unclody written in one of these modes generally unded was known as the Final, and did not necessarily have the same relative position in all the mode.

For example, in the two following scales:-

there are the following differences:-

- (1) The scheme of tones and semitones in the first is: TSTTTST; in the second it is: STTSTTT.
- (2) The Dominant of the first is A, the fifth note of the scale. The Dominant of the second is also A, but it is the seventh note.
- (3) The Final (i.e. the melodic ending note) of the first is D, the first note of the scale. The Final of the second is E, the fourth note of the scale.

Now if the rudiments of a modality something like this cannot be satisfactorily traced in ascient Greek music, we must admit that the chief factor in the evolution of the mediacval modes was not Greek. If, on the other hand, some such modality (even though of a very elementary nature) can be traced in Greek music, we shall be justified in searching for the connexion between this modality and the mediacval music. Thus the first thing we have to settle is the question whether Greek music was essentially modal or not. But before examining any evidence ourselves a short summary of the more important opinious expressed on the subject may be useful.

(1) There is a strong feeling among musicians that it would be entirely annualous if the art as practised by the Greeks had had no influence and left no traces on the art of the present day. The Oxford History of Music, while not committing itself on the subject of early Greek music, admirably expresses the point of view (Preface to Vol. I p. 6); Music. among all the arts, has exhibited the most continuous evolution. Over six centuries of work went to provide Purcell with his medium. Even those changes which appear most violent in character may all be rightly regarded as parts of one comprehensive scheme; sametimes adjusting a balance that had fallen askew, sometimes recalling a form of expression that had been temperarily forgotten or neglected, mover wholly breaking the design or striving at the impossible task of pure innovation. Such a view if anaupported would be mere prejudice; but for centuries it had been noticed that the ecclesiastical modes bore the names of Greek races just as did the Greek scales which Plato and Aristotle call apponiar. This coincidence of nomanclature scarcely seemed attributable to mere chance. Furthermore, there was a persistent tradition that St. Ambress of Milan took four scales from the Greeks to be the basis of liturgical music, to which St. Gregory added four more. These two things seemed to indicate so intimate a connexion between threek and mediaeval music that scholars approached the

study, consciously or unconsciously, with that presupposition. Beech, Bulliamann, Marquard Westphal, Fetis, and Gevaert, all believed that evidence from Greek sources gave sure ground for assuming as proved the connexion between the old Greek scales (apparar) and mediaeval music.

- (2) In 1894 D. B. Monro published his book The Modes of Ancient Greek Music. There he examined the evidence afresh and concluded that the donories differed chiefly in pitch: that is to say, the Doring state differed from the Phrygian not as C major differs from C minor, but as C major differs from E5 major, for example. If difference of mode or species cannot be entirely denied of the classical period of Greek music. it occupied a subordinate and almost unrecognised place (p. 108). According to Monro the liturgical scales cause not from Greece proper, but aress in Alexandrian times and are first found in the work of Claudius Ptolemanns a savant of the second contary a.p. Such a theory was fintal to all fileas of relation between music in the days of Pericles and our own. Monro's book was adversely reviewed by H. S. Jones and Von Jan, but the reputation of the author and his skill in arranging his evidence and making inferences persuaded many of the soundness of his views. The new edition of Geove's Dictionary of Music is inclined to accept the theory, and the Encyclopaedia Britannica says boldly; 'All the evidence irresectibly tends to the conclusion that the Greek "modes" were a series of scales identical in arrangement of intervals and differing only in pitch."
- (3) The late Professor Macran in his edition of Aristoxenos (1900) brought forward another theory. In dealing with the apparea in believed there were only three kinds, a Dorian, an Ionian, and an Acolian which survived the others (p. 18), but the most important and ingenious part of his work cancerns an incipient modality which he finds in the soven species of octave, είδη τοῦ διὰ πασῶν. In the scale:—

ABCDEEGABCDEFOA

the seven successive octaves. B.B. C.C. D.D. etc., have different successions of tones and semitones; they are different 'species' or 'kinds' or 'schemes' of octave. Prof. Macran asserted that there were in use seven such octave scales, all of the same pitch as a whole, all commencing on the same note; but that the chief note in each, i.e. the note most irequently used in melody, was in a different relative position. In one scale it would be near the top, in another at the bottom. He thus combined the pure modal view with the pure pitch view; for undoubtedly the sequence of intervals differs, yet at the same time a scale whose chief note is high up will give higher-pitched melodies than one whose predominant note is lower down.

(4) The late Professor Cook Wilson in a paper read before the Oxford Philological Society in 1904 proposed a theory which reasserts the pure model view of the πραστίας but differs considerably in details from the Westphal-Gevaeri one.¹

Mr. Thomaston's unbankle article; 'Seaso Quarterly, April, 1913

(5) Mr. Coeil Torr's Interpretation of Greek Music (1910) indirectly attacks the idea of a connexion between Greek and modern music from a standpoint entirely opposite to that of Monro. His thesis is that the Greek scales known as voice (which are quite distinct from the 'octave-species' and are generally believed to have differed solely in pitch) actually made use of intervals differing minutaly but quite perceptibly from one another. The tones and semitones of the vovos followed one another in the same order in all the rapor but one tone differed from another in size, one being normal, another being a shade small. This would mean that the Greeks used intervals unknown in practice to Western civilization. Mr. Torr himself says. The charm of the ancient melodies was the subtle variation of the intervals through which they rose and fell and all their charm is sacrificed when they are forced into a modern scale. Greek music with the tempered scale would be as bad as Greek architecture with straight lines substituted for its subtle curves. If that is so, it would be difficult to trace any connexion between these delicate semi-oriental scales and the modern one

In view of this variety of opinions it is not surprising that neither Greek scholars nor musicians know where to put their trust. At the same time such differences of opinion are quite natural; for the difficulties which beset an enquirer are many and one false step has dangerously large results. The chief points we have to bear in mind are:-

- (1) All notions derived from modern or even mediaeval music must be resolutely set uside. Neglect of this led Westphal and Gevaert into exaggerating the similarities they could trace between Greek and modern music.
- [2] Little help can be derived from the extant fragments of Greek music. They are all very mutilated or the products of the first two centuries of our era. They may be useful in checking our conclusions but by themselves they do not tell us much.
- (3) Though, commencing with Aristoxenos (320 n.c.), there are works on Greek music right down to the time of Bryennies (1350 a.p.), we have no terhnical writers of the period which is most important for our enquiry. For pre-Aristotelian times we have to rely mainly on musical references found in poets and philosophers who assume in their readers just that knowledge which we desire.
- (4) The quality of the later writings varies greatly. Some like Aristoxenos are fragmentary; others are really elementary handbooks, like Bakchoios and Kieonides. Some again such as Phitarch and the passages of Athenaios are antiquarian and none too critical. Worst of all are the mathematical and speculative writers who fall under the spell of the Pythagurean theory of numbers (Gaudenties and Nikomachos).

With these proliminaries we may turn to the question: Was the ancient

Greek music modul or not /

II.

There are two non-modul theories of the appoplar, Macran's and Monro's both of which are open to serious objections. Let us deal with Macran's first

After describing the elementary tetrachords whose bounding notes were a perfect fourth apart, Mauran proceeds: 'When this mangre group of four notes was felt to be inadequate to the expression of human emotion, a ready mothed for the production of a more ample scale was sought in the addition to the original termohord of a second, exactly similar to it. But immediately the question arose, how was the position of the second tetrachord to be determined in relation to the first ! Or, to put it more generally, supposing a scale of indefinite length to be constituted of a series of similar tetrachords. how was the position of these tetrachords to be relatively defined? To this question it seems there were three possible answers to the theorist, each of which no doubt found support in the art product of some tribe or other of the Hellenic world. The method of determination proposed in each answer constituted a distinct appropria or Harmony which term I believe to have meant primarily an 'adjustment' not of notes (for these are not the units of music but of tetrachords.

The first method was one of conjunction i.e. the highest note of one zetrachord is coincident with the lowest note of the tetrachord immediately above it: This Macran calls the lanie Harmony and gives it as:-

BODEFGABSODESFO

The second method is one of disjunction where there is an interval or one whole tone between the highest note of one tetrachord and the lowest note of the tetrachord immediately above it. This is designated as Dorie, and written as -

A B C D E F G A B C D E F G A B

The third method of adjustment employing conjunction and disjunction alternately, interposed a tone between every second pair of tetrachords, while every other pair were conjunct. This Harmony I shall assume to have been called Acolian; it resulted in the following scale:

BCDEFGABCDEFGA

Several considerations make this theory untenable :-

(I) Plate and Aristotle, to mention only two of the authors who refer to

the appropriate give us the nature of abless sir appoint.

(2) The Aristotelian problems repeatedly state that the old approvar had only seven notes or strings (xix. 25, 32, 44.). But the Acolion Harmony of Macran cannot be clearly defined in an interval less than an sectave and a fourth to show the alternate conjunction and disjunction.

(3) The assumption of a scale of indefinite length cannot be admitted. The early Greeks using as Professor Macran believed a mere totrachord, would scarcely make a purely imaginary and theoretical scale of indefinite length the stepping stone for progress in the musical art.

(4) The passage of Herakloides Pontikos on which the theory uitimately.

rests really proves nothing. It runs as follows :-

Βρακλείδης δ΄ ο Ποντικός εν τρίτω περί Μονσικής ουδ΄ άρμανίαν φησε ενίν καλείσθαι την Φρίγιου, καθάπερ ούδε την Λύδιου, άρμανίας γαρ είναι τρείς: τριά γαρ και ψένεσθαι Έλληνων γένη. Δωριείς, Λίολείς, Ίωνας, ού μικράς ούν ούσης διαφοράς ἐν τοίς τούτων ήθεσεν . . . την ούν άγωγην τῆς μελφδίας ην οί Δωριείς ἐποιούντο Δώριον ἐκάλουν άρμονίαν. ἐκάλουν δὲ και Λίολιδα άρμονίαν ην Λίολείς ήδου. Ίαστὶ δὲ τὴν τρίτην ἐφασκον ην ῆκουον πόδοστων τῶν Ἰώνων (Λίκειαιος, 624 ο)

The three approvan mentioned by Herakleides, the Dorian, the Acolian and the Ionian, we know to have been the earliest, whereas the Lydian and Phrygian which Herakleides excludes were said to have been brought from Asia Minor to Greece by the followers of Pelops: and surely Herakleides is here giving as not a piece of real evidence but an expression of a prejudiced and conservative patriotism. We must give no more weight to these remarks of Herakleides than we do to the passing claim of Plato (Luches 188 p) that the Dorian is the only time Greek approvia.

III.

It is not an entirely easy matter to dispess of Monro's theory which makes the effect (1600) of the apportant depend primarily on pitch and while not denying the existence of a shadowy modality, relegates it to an insegnificant place in the aesthetic perceptions of the Greeks. But the following considerations weigh heavily against it.

(1) Monro's theory has as a corollary the supposition that the pitch of any given apports was always the same; for otherwise the ethes would be changed and the scale lose its identity. For example, on this theory the Dorian apports which was selemn and stately and the Phrygian which according to Aristotle was exciting (excovariorized), would both be of medium pitch and the least accident of intenation would transform a solemn song into an exciting one. Did the Greeks have or could they have had, a fixed standard of pitch! They certainly did not possess in carry times any maximum to form an unalterable standard of pitch; and the only other alternative, the possession of a sense of absolute pitch, is an assumption we must not make without very strong syidence to support us. If we are guided by the analogy of Welsh, Hinda or Celtic singers we must margine the Greek kitharode tuning his tyre just to and the range of his own voice. This hidden corollars then is a scroom obstacle to the acceptance of Monro's theory.

a Police, General is, 65; and Athen 625 c.

(2) The names of the apportal mentioned by Plato and Aristotle are so striking that some weights reason must be at the bottom of the matter. The application of tribal names to unusical scales at once suggests that the apparias were named after the people who first used them, and our evidence goes to move that this was the case.8 Now when a Dorian first heard a Phrygian song, the effect must have been extremely novel for him to call it distinctively Phrygian. His own apporta was stately and disposed a man to conrage; the Phrygian he found exciting. On Mouro's theory these two apportant are both of medium pitch. Can we magine the Greeks being so sensitive to the difference of a single tone ! Their musical perceptions may have differed from ours, but we must be charg of behaving them to have differed so vastly. Musicians can and do realise how emotional effect arises from mere pitch but they cannot conceive how one single tone could work so great a transformation of ethos. Yet this difficulty is immediately removed by the modal theory; anyone who has heard modal meladies in a Roman Catholic church will at once resilise how easily the mames of the Greek appropriation are explained by the assumption of a modal differentiation.

3 We have preserved for us in several places the names of inventorof new apparies. Terpander invented a Bosotian, Sappho the Mixelydian and a certain Xenokritos a Locrian. If patch was the criterion of other, the invention of a new dopovia means simply stretching or slackoning the strings a little more than usual, a thing which must have happened thousands of times in the ordinary process of runing before Terpander or Xenokritos. There is no reason on Monro's theory why the names of great poets like Sappho should be so carefully preserved for so small a matter. If however we can accept the modal view, an easy explanation offers itself. The first great post to make an extensive use of a tribal mode and secure its use in other parts of Greece was honoured by the title of Inventor (superies) 11 requires great art and skill to introduce agreeably mobilies to which the car has not been accustomed; but the taking of the same melody at a different patch is a variety fac which the inventor would hardly have had his name so enrufully delivered to posterity,"

(4) No reviewer or writic of Monro has pointed out the fatal weakness which is revealed by an examination of his authorities. It is nothing less than an inconsistency as to the pitch of the appropriat. After quoting Pratings p. 5 (Athen 62&r):-

> μήτε σύντονον δίωκε μήτε ταν ανειμέναν Ταστί μοθσαν, άλλα τάν μέσαν νεών apougan alonite to when.

Monro concludes that the Acadian was a scale of medium pitch lying between the Ionian and some other appeals. Yet immediately Laure of

Finder, Oc as; 117.

[&]quot; Athin, the or liquoted above a Polling Committee 65 ; bulletmann, of more 29.

Soliol, on Aristoph. Johann. 14 : Platarch. the Milited on the Callina in behald con

^{*} Sir Francis Eyles Styles, Philosoph Trans 1760, vol it, p. 785.

Hermione is quoted as saying that the Acolian apports is the p-sounding (SapuSponer)

Again in reference to a passage of Telestes (Athen. 625 v) :-

τοι δ' όξυφώνοις πηετίδων ψαλμοίς ερίκου Λύδιον ύμνου.

Monro writes, 'the spithet ἀξυφώνοις is worth notice in connexion with other evidence of the high pitch of music known as Lydian.' But in spite of this in quoting Plato (who labels the Ionian and Lydian ἀρμονίαι as effectivate and convivial) be translates the epithet χαλαραί as low pitched. These two discrepancies are decisive; for it pitch is the only valid criterion of alhos, we should expect the Greeks to be very certain of the pitch of any particular ἀρμονία. That they were not is a clear proof that pitch was not the essential element in the ethical effect of musics.

IV.

It is difficult to imagine what other theories of the appealar there could be except Macran's and Monro's and the older modal one. We have already shown that both Macran's and Monro's are open to serious if not to insuperable objections, but such a domenstration is not sufficient by itself to prove the modal theory; it only leads us to a more careful search for threet evidence. The following are the more important passages and considerations which lead to the the modal view.

- (1) Plato, Philebos, 17: 'Αλλ', & φιλε, ἐπειδαν κάβης τα διαστήματα όπόσα ἐστὶ τὸν ἀριθμόν τῆς φωνής ὁξύτητος το πέρι καὶ βαρύτητος, και ὁποῖα, και τοὺς ὅρους τὸν διαστημάτων, και τα ἐκ τοῦτων ὅσα συστήματα γέγονες. Α κατιδόντες οι πρόσθεν παρέδοσαν ἡμίν τοὶς ἐπαμένοις ἐκείνοις καλεῖν αὐτὰ ὁρμονίας.... The only manning this passage can have is that the ἀρμονίαι κων systems or scales (for σύστημα is the common word for a musical scale) which were distinguished from each other by the variet collocation of their intervals.
- (2) Plate, Nome, this is τη δι της εινήσεως τάξει μυθμός δυαμα είη, τη δι αῦ της φωνής, του τε όξεος άμα και βαρέος ξυγκεραννυμένων, άρμονία δυαμα προσαγορεύουτο. This is a rather vague statement but clearly does not refer a àpaoria to pitch but to the mingling of high and low notes. Bearing in mind the reference to highness and lowness in the preceding Philebos passage we may assume Plate had the same kind of idea running through his mind here.

nonung, most of Monro's egitiance for his

^{*} There is no need to real reason to rains the words everyone, because and patence to pitch at all (of, If, S: Jones, C.S., 1894). If we agree with Monro that they do refer to pitch we are to will the above improved from the other hand we give trum an exhaust

¹ Ct. Symmios japont Vincent, Notices, p. 250) - Seres & Alex cristagus program for arrestour es and reasonner es he of decree-alexe to housely, not along and along the house

(3) The Pythagorean theory of the soul as a approva (cf. Plate; Plated 56 x 7-c 5), so far as it is related to music points distinctly to the modal theory. The soul of a good num was not more highly strung than the soul of a bad man; its constituents were merely better attuned and in proportion. As the Dorian scale resulted from the best tuning or fitting of the lyrestrings (apporta), so the best man was the result of the best fitting of the constituents of his soul. A man might be amatory, warlike or effectively but it was not his soul as a whole which was more or less highly strong, the difference lay in the altered relations of the parts of the soul to one another. In the same way one scale might dispose a man to courage, like the Dorian, or have a relaxing effect like the Lydian or Ionian. The intervals were the same in each case but the alteration in their collocation gave rise to the different effects.

(4) Aristophanes, Knights, 985

Αλλά και τόδ έγους θαυμάζω τῆς ὑομουσίας αὐτοῦ φασί γὰρ αὐτὰν οἰ παίδες οἱ ξυνεφοίτων, τὴν Δεοριστί μονήν ἀν ἀρμοττισθαι θαμά τῆν λύραν, άλλην δ΄ ούκ έθέλειν μαθείν κάτα τόν κιθαριστήν όργισθέντ' άπάγειν κελεύτιν, ώς άρμονίαν ό παίς ούτος ού δύναται μαθείν ήν μη Δωροδοκιστί.

One has to be careful in extracting precise information from the quips and jokes of a comic poet, but surely beneath this jibs of Aristophanes it is not familial to see the fact that the learning of a new appoint required some effort on the part of a student. Why? Clearly not because of a mere difference of pitch. No Athenian boy would be so incompetent as not to be able to tighten up the strings of his lyre or luthars as a whole: the turning of the crossbar would effect that. But to tune the lyre to a new modal scale, where individual strings had to be altered might conceivably have caused difficulty to a boy of abnormal musical taste and perceptions.

(5) Aristotle, Politics, III. 3, 1270 n. Είπερ γάρ έστι καινωνία τις ή πόλες, έστι ός κοινωνία πολιτών πολιτεία, γενομένης έτέρας το είδαι καὶ διαφερούσης της πολιτείας άναγκαζον είναι δόξειεν άν καὶ την πόλεν μη είναι την αύτην, όσπερ γε καὶ χοράν ότι μιν κωμικών ότι δε τραγικών έτεραν είναι φαμέν τών αύτων πολλικώ δυθρώπων όντων, όροιως δι και πάσαν άλλην κοινωνίαν καὶ αύτθεσεν έτεραν, άν είδος έτεραν ή της συνθέσεως, οίον άρμανίαι των αύτων φθογγων έτεραν λεγομέν ότι μεν ή Δωριος ότι

Se Pringios.

This passage (first quoted by Professor Cook Wilson) is far from definite but can only be explained on the modal theory. Literally value advantable of the explained as the modal theory. Literally value advantable of the certain mane such as Mese or Paramese, without defining any functional value but marely the position of the corresponding string on the lyre, the passage becomes highly conclusive.

(6) Aristotlo, Politics viii 7, 1342 n Φιλάξενοι έγχειρήσας δε τη Δωριστί ποιήσαι διθύραμβοι ΤΟΤΣ ΜΥΣΟΥΣ ούχ οίος τ' η ε άλλ' ύπο This very important passage points unmistaliably to modality and not to pitch as the criterion of ethes. It is not a matter here of extempore playing on the part of Philozenes, but of deliberate composition. If pitch had been the only difficulty, transposition would have removed the trouble in which case Aristotle would not waste his time relating the incident. As a modern analogy, we may remark that funeral marches are generally in the minor mode, but Händel's march in 'Saul' is in the major. Philozenes trued some such tour de force, but failed.

(7) Valuable inferences may be drawn from a consideration of the topics dealt with in the fragments of the Harmonnes of Aristoxenes. He divides the science of Harmonic (Chap 35-38) into seven parts: genera intervals notes, scales, keys, modulation and the construction of melody. The fourth part he says, will consider scales firstly as to their number and nature secondly as to the manner of their construction from the intervals and notes.... Our prodecessors either made no attempt at all at enumeration of scale distinctions confining themselves to the seven octave scales which they called Harmonies (apportu); or if they made the attempt they follshort of completeness. like the school of Pythagorus of Zacynthus and Agenor of Mirviene . . . The fifth part of our science deals with the keys in which the scales are placed for the purposes of melody. Thus Aristoxenes clearly considered the apportant as 'systems' and quite distinct from the rover or keys which differed solely in patch. That the systems were defined by the succession of intervals is implied earlier in the work (chap. 6). 'As we then observed all the scales with the exception of one have been completely passed over; and of that one system Eratokles merely endeavoured to enumerate the figures of one magnitude namely the cetare empirically determining their number, without any attempt at demonstration by the recurrence of intervals. These passages of the chief musical theorist of antiquity leave no doubt that the apporter were senter differing in the surression of the intervals composing them:

(8) Cicero Tasculan Disputations, i. 18: Harmoniam autem ex intervallis sonormo nesse possumus, quorum varia compositio etiam harmonias

efficit plures.

This is a lucid confirmation of the Greek passages given above. It may be said that Circro is rather a late author to quote as an authority of supportant a matter; but his old tutor Posentionios was no mean musician (Athen 635 c) and from him Circro no doubt obtained much of that musical knowledge which is found somewhat frequently in the Testulates.

(chap. 16, 1126 D) is perhaps of more importance than any other quotation of an audioni author. Αριστάζευσε δι φησε Σαπφώ πρώτην εθρασθαι την Μιζολυδίστι, παρ' ής τούο τραγρόδουσους μαθείν λαθόντας γούν αύτους συζεύξαι τη Δωριστί, έπει ή μετ τη μεγαλοπρεπές και άξιωματικήν άποδί-

^{*} Marrier's translation.

δωσιν, ή δε το παθητικός, μέμισται δε δια τοίτων τουγφίων αιθες δε Λαμπροσλία του Αθηναίου συνιδόντα, ότι είν ενταύθα έχει την διάξευξια, όπου σχεδοι άπαυτες φοιτο, άλλ έπὶ το όξό, τωσίτον αύτης άπεργασασθαι το σχήμα οδον το άπο παμαμέσης έπὶ ὑπότης ὑπατών. 'Αλλά μήν καὶ την Επανευμένην Ανδιστί, ήπερ έναντία τη Μιξολνόιστί, παραπλησίαν ούσαν τη Πάδε ὑπό Δάμωνος εὐρήσθαι φησι τοῦ 'Αθηναίων. Here we find the Mixelydian άρμονια determined not by its pitch but by the relative position in it of a cortain distinctive tone-interval; and furthermore a Lydian scale is recognised as having its succession of intervals just in the reverse order of those of the Mixelydian. The schemes of the two scales; in the diatonic genus must have been:—

Mixolydian S T T S T T T Epanotmone Lydiati ... T T T S T T S

We shall find later that these schemes are confirmed from other sources but for the present it is sufficient to point out how remarkable is the support which this passage gives to the modal theory. When we remember that it comes actually from the pen of Aristoxenes himself can any doubt remain about the validity and truth of the modal theory of the apportant.

T.

After the preceding survey of the evidence relating to the appopria, we can come to some conclusion. Macran's theory of three apparla; is built up on a very meagre portion of the available evidence, and is entirely refuted by the remainder. Monro's theory is more formidable, and at first sight all the avidence scame to go in its layour. The words overroves and averages so often repeated in the earlier authorities seem to point distinctly to pitch as the distinguishing feature of the various scales. Yet a closer examination of the theory reveals inherent improbabilities, and a consideration of the avidence for it shows fatal discrepancies. On the other hand, the modal view is supported more or less strongly by half a score of quotations, and the passages which seem to controlled it can be silved without any violent manipulation. Accordingly we must admit that the Greek appropriate mentioned by early writers derived their emotional and othical effect on listeners fundamentally from the varying succession of the tones and semitones composing them. In other words, the apportant were actually modes, At the same time we must beware of attributing to them, as Westphal and Gernart did as elaborate a structure as we find in the medianval modes. Our avidence is not sure enough for us to say whether or not they possessed

^{*} Mr. Doministin (C. Queer, 1918) queens three paragraph which were to the all suche to our administration but in every one of these colors to say be shown that Pythingurean enformations to be such as in that only the Dominian frames in in view. The evidence for the

productioning to far too weighty to be upon by there present for which as may explanation presents itself (at Germet, Les Problèmes Marienes a Friedric, p. 167; and Weil and Remark's Planague, de la Musique, p. 93, n. 526).

a definite melodic Final or Dominant (or reciting note), such as the litergical scales possess. Of this one point, however, we may be sure; as far as a varied succession of intervals is concerned they were essentially modes.

Yet such a conclusion does not tell us much about the appariar as they were in actual use. Two further questions of no small importance arise; even granting that pitch was not the basis of the appariar, may not the modes still have differed from one another in pitch : Secondly, what was the

series of intervall which composed a given apporta!

The first question has never been properly discussed. Most writers assume quite arbitrarily that there was or was not a more or less important difference of pitch between the various apparian. There is only one passage of Aristotle which has anything definite to say on the matter, and it is sometimes addresed as proof that there was a difference of pitch. It cans as follows (Politics, viii 7, 1342 a 20): Thus for those whose powers have failed through years it is not easy to sing the average scales; their time of life insturally suggests the use of the average Monro remarks: In this passage the meaning of the words viertores and averageous is especially clear. But this passage cannot possibly refer to pitch for the following reasons:—

(1) If pitch alone is the difficulty, there would be no need to teach boys

these modes. Old age would be the only master necessary.

(2) Aristotle has been mentioning \$600 only two lines before. Ought

we not to refer the words overrouse and averagence to other also

(3) As a matter of fact, old men cannot sing low-pitched songs better than high-pitched ones; they find difficulty in singing any except mediumpitched ones. A man who in the prime of life was a tenor does not become a bass singer when he grows old; he remains a tenor, but loses some of his range at both ends of his voice.

(4) The Greeks thought that old men sang and spoke in a shrill voice. Several of the Aristotelian Problems mention the fact (xi. 3, 34, 40, 62).

The truth of the matter seems to be that some intervals and successions of intervals are more difficult to sing than others, and impose a greater strain on the vocal organs. Dob to La is always hard to sing. Dob-Te-Dob is easy. The meaning of Aristotle is that the melodies drawn from the averaginar modes contained successions of intervals which did not tax the voice severely and were therefore anitable for old men in spite of their ethical qualities.

Accordingly we must have the question of the pitch of the various apparein with a non-liquet. Common sense would seem to indicate however that each individual singer sing all the modes at about the same pitch and chose the pitch to sait the best compass of his own voice. Beyond that we cannot safely go.

VI.

By far the most important question relating to the nonconica, once we have established that they were medes, is to define the successions of intervals which constitute a given openia. In dealing with this part of the subject

we have to remember two very important facts. In the first place the apports, were quite old in the time of Plato and had existed for centuries without being defined by any rigid theory. They were in essence the unnings of the lyre necessary to play tribal melodies and not text-book scales. We must not expect to find them logically constructed and scientifically arranged. Secondly the existence of the genera has to be borns in mind continually According to the theory of the "genera" a perfect fourth was variously divided in six principal ways at least :-

Enharmonu		1	000	4	(= u,	parteo	(dame)
μαλακός Chromatic:	H m s	1	1	14	18.	15	
ήμιοχίος		131	100	11	E	-	. 0
τονιαίος	in the ar	1	1	11	Tie.		22
maxacos Dintonio	-	ě.	31	14			**
συντουός	-44	Ā	1	L	rr 	E.	16-

Some if not all of these genera were actually used and though it makes for simplicity of exposition to ignore their existence; it does not give us anything like a true idea of the nature of early Grank invoic.

We have already seen how Aristoxenes speke of the seven actavesystems which were called apportar. He himself in his sevised theory preferred to call them more scientifically ston too bid magain; and the forms in which he gave them are preserved for us in the Eisagege of Kisomites. the chief Aristovenian writer of later antiquity. The list is -

	Die!	01610	Kahammile					
Mixolydian in	STTS	TTT	or 1 1 2 1 1 2 1					
Lydian	T T S 1	TTS	. 12.11311					
Phrygian	TSTI	TST	2 1 1 2 1 1 1					
Dorinn	STTI	STT	1121112					
Hypolydian	TTTS	TTS	. 121121					
Hypophrygian	T T 8 1	TST	. 2 1 1 1 2 1 1					
Hypodorian	TSTT	STT	1 1 1 2 1 1 2					

But besides this list which is found in other writers as well as in Kleonides. there is a second preserved in a hunous passage of a writer of the second century A.D. Aristides Quintilianus. In the course of a discussion of the división of the tetrichard into genera he job down a series of scales which he says the old Greeks of same valatorards used as appostan and definitely asserts that of these Plate made mention in the Republic. They are as follows :-

Lydjan	1000	9.4	4.	12	1	1	L	min.	II.	
Derinn	dwi	78 (81 82	T.	1		F.O.	1	-1	1	2
Pheygun	air.	1,150 9.89	1	1	Total -	1	1.	1	1	1
Ionino	84.0	444	1.	1	10	14	1			
Mixolydian	100	g g.A.	1	1	1	Į.	1	1	33	
Syntonidyd	linin.	10 TO 10	1	F	3	14				

The definite claim Aristides makes for these scales and the remarkable difference between them and the normal list warn us to be sure of their authoriticity before accepting them. Gevaert never thinks of doubting them, Laloy believes that Aristides had access to the lost pre-Aristoxenian theory books but Mouro rejected the evidence of Aristides. For the following reasons it is impossible to do other than accept them.—

(1) Though the passage is a digression, it is not as Monro says a crude interpolation. The scales are distinctly given as curious examples of the use of the enhantment quarter-tone in the old scales. Their insertion arises maturally from the context and at the end Aristoles calls attention again to the small interval (p. 21 : δίεσαι δὲ νῦν ἐνὶ πάντων ἀκουστέον τῆν ἐναρμόνου).

(2) He is quite aware that these scales differ from the normal list which he himself had already given (p. 17). Some, he says, do not reach to a full octave and he promises to explain why later. The fact that the promise is not fulfilled is rather in favour of the genuineness of the passage than otherwise.

(3) We have seen that a certain Lamprokles of Athens became famous for demonstrating the real theoretical structure of the Mixolydian appoint. Now the most remarkable scale of Aristides is the Mixolydian with its undivided three-tone interval at the top which obscures the true position of the 'disjunctive tone.' It was Lamprokles we may believe who first ascertained the theoretical division of this large interval.

(4) The much mutilated fragment of the Orestes of Euripides affords strong support for these scales. It is one of the oldest pieces of Greek music which we possess, and the intervals it uses coincide absolutely with the

six lower intervals of the Phrygian scale of Aristides.

(5) More striking still is the evidence found in Mr. Abdy Williams paper on some musical instruments found at Pompeii (Cl. Rem 1903, p. 409). One of the instruments, a kind of primitive organ (probably a πτέρον) gives the sequence of intervals.—.

The sequence in brackets agrees entirely with the Ionian of Aristides and we are taki by an ancient writer that one of the scales used on such an instrument (the wripper) is actually the Ionian! It is impossible to reject the evidence of Aristides after such considerations as these.

We can now compare the scales of Aristides with the normal list and

draw some interesting conclusions.

(1) The Mixelydian of Kleonides and that of Aristides tally thus:-

(2) The Dorian corresponds as .-

The additional tone at the bottom of the Dorian of Aristides is worth particular notice; its significance will be explained later.

(3) The Hypolydian elooy of Kleoundes in the same scale as the Lydian of Aristoles:-

Apparently the Lydian of Plate with the advance of theory and the introduction of the scientific arrangement into Hypo-modes changed its name We find Plutarch (c. 16) referring to it as the Epaneimone Lydisti

I The two Phrygian scales do not correspond as they stand, but Monro has already pointed out that the scale of Aristides is really related to the diatonic form of Kleonide. Comparing we abtain :-

Kleonides (Diatonie) ... I
$$\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{2}$ Aristides (Enhannonie) ... I $\frac{1}{1}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$

(5) The Syntanolydian of Aristisles is a very imperfect scale but it corresponds in some measure with the Diatonic Lydian of Kleenides:-

Thus it seems that the so-called Syntonolydian of Plato's Republic was known later as simply the Lydian

(6) Though we know that the old Ionian apports was called the Hypophrygian in later times (ef: Bosckh: Do Metris Pindari, ii. 8) very little correspondence can be found between the two scales:-

(7) Kleonides gives seven octave species but Aristides gives six donories only. The remaining species is the Hypodorian. From Athennies (824 g) we been that this species was the same as un old Acclian appeara which Plate did not discuss and Aristides therefore does not mention.

These apparear, we must remember, were a spontaneous growth due to a people keenly intent on expressing its emotions in the natural medium of song. In reality they had no existence except as the sources from which melody was drawn; the taming of the lyre for a Lydian song was known as the Lydian apports and the scale which resulted was called the Lydian donovia also. But the fundamental structure of the Lydian apporta was not realised nor the relation it bere theoretically to any other appoint It was only when the theorists commenced their work that these scales were written down as independent phenomena. Lasos of Hermione the first theorist fived about 500 nc.; but of his work we know little. A quarter of a century later Lamprokles of Athens distinguished himself by deciding the real theoretical structure of the Mixelydian agreeous: and during the lifetime of Sokrates another Athenian, Damon, did the same for the Lydian scale of Plato. These and other theorists did not invent

the scales; they endeavoured to find some principle of structure in them and on that basis to complete these scales which were defective. The enthuination of this classification of the apparture is found in the work of Aristoconics (320 n.c.) Now the scales of Aristides are the apportac as they existed before the work of classification was complete, whereas the scales of Klannides are the donorion seen in the light of Aristoxenian theory. The scales of Aristides are of the utmost importance for the study of Greek music and from them we can obtain a very fair abox of what Greek music was like in the days before Plate.

(1) We have to acknowledge, what the 'Orestes' fragment and the hymns found at Delphi lead us to suspect, that ancient Greek music would sound atterly barbarie to our modern cars. The quarter-tons interval which was used so frequently is unknown to us in Western Europe and its importance must not be under-estimated. The simplest

melody which contained it would be unintelligible to us:

(2) A apporta was not confined to one single 'germs' as we see from the Phrygian and Syntomolydian scales of Aristides There the enharmonic diesis to used but the internal structure of the scale is decidedly distonic The later theorists would not lead us to suspect that such was the usual state of affairs but it seems that it was accually so.

(3) The old scales (and consequently the melodies written in them) did not always extend to a full octave nor were their intervals evenly distributed Of these phenomena the Mixelydian and Syntonolydian are

good examples.

Even though we should be unable to appreciate ancient Greek music we must not assume that it was an inferior or undeveloped form of art; It was vastly different from our own but it expressed for the Greeks quite as much as our modern music does. They found it expable of influencing character, and an art which can do that is not to be decided because we are unmoustomed to its peculiar idiam.

VIL

In order to trace the modal structure of Greek music still further we must digress a little into the history of Greek musical instruments, of which the lyre and kithara are for our present purpose the most important. From the strings of these instruments the notes of the scale originally took their names; the Hypate. Mese and Note being in reality the highest, middle and lowest strings on the lyre in point of position, and the Lachanes the string played by the first finger. The very old lyre had seven strings only, a number which was regarded as semi-samed. The first break with the ald order was made about 520 n.c. by Pythagorus (we are told) who added to the lyre an eighth string and thus obtained for his diatonic Dorian scale:-

EFGABCDE

and within a hundred years of this date, string instruments had increased to at least elevan strings. The flute too, was improved during these years. Previously separate flutes had been used for the various scales, but a certain Pronounce of Thebas invented a flute to play the Dorian, Lydian and Phrygian. Furthermore we have in this period the rise of theory on the part not only of the Pythagorean school but also of important musicians like Lasses or Hermions and Lamprokles and Damon of Athens.

We must not imagine, however, that these innovations were any more favourably received than those of later progressive musicams like Wagner and Debussy. Philozenes, Timothees and Pronounces were severely consured as offering an insult to the Muses and debasing the parity of art. Phato in particular objected to the new movements in music and definitely rejected for his ideal State those instruments which were adapted for playing all the modes (Rep. 399 c). And even by the time of Aristoxenes some of the conservative spirits had not become reconciled to the revolution which had taken place.

We shall understand these advances better if we keep in mind the list of modal scales as given by a later theorist like Kloonides (cf. mpro). Let us imagine a musician with a seven-stringed lyre tuned to the diatonic Dorian appareta as:

E. F. G. A. B. C. D. (E.)

If he desires to play a Phrygian melody he has to return some of his stringto obtain a sequence: T S T T T S T; this he effects by raising the F and
C each a semitone, assuming of course that the strict diatomic 'genus' is
contemplated. The scale which Plate calls the Lydian (later Hypolydian)
needs no less than five strings changed; and in the mixture of 'genera'
which Aristides gives us in his list, the matter becomes even more
complicated. This alteration and fitting of strings into a new scale was the
origin of the term apacoia as applied to music. The addition however of an
eighth string to complete the octave and a ninth string placed a fifth below
the Mese or middle string. The pened up a new ora for the new instrument can
now be tuned:—

D E F G A B C D E.

The octave E-E gives as before the diatonic Doman appeara, but what of the octave D-D ! Its scheme or species (explus or eless) is:—

TSTTTST

which corresponds with the scheme of the diatonic Phrygian apporta.34 It

P CI Well and Remark's examining notice. Platarque, de in Manigue, p. 119. On the whole of this service, ed. Corris, J. H.S. 12441.

m Athon. 631 K; and Pane 18: 45, 6,

Mathematik et Pans, 61, 12, 10 Photosch. De Mas. 1133 b. 1141 b.

^{*} For the math string, "hyperhypate" or "diagramptes, at Vincent, Nation, p. 254

H The Ductum cotogo Kak and the other

scales in excelent nonsamble or are not retanded as an implication of the natual pittel, of faresk ender but are used partly medicinarce to a tradition which has green up in the straty of the imagest, partly to avoid the excesive use of as libertals. On the appet of the strain into M. Greek as less et. F. Chaifbrilliant extrale in the Kenn des fronts Greege, 1969, p. 1899.

seems that the Greeks at first did not realise clearly that the Phrygian appoint was here reproduced a tone lower as a whole, but considered the additional note as an extension of the Dorian apporta. Consequently in the old scales which Aristides has preserved we find the lower D. making an interval of a tone with the real hypate of the Dorian, included in that apporta. When however the Greeks did perceivs what the added note really meant they were not slow to make use of the principle there found. Thus by the time of least of Aristoxenos they possessed a long two-octave scale which was known technically as the Greater Perfect Systems. It was—

ABCDEFGABCDEFUA

It was seen that the octave B-B gave a scale similar to the Mixelydian appears; C-C a scale similar to the so-called Syntonolydian appears and D-D one similar to the Phrygian. E-E was actually the Dorian appears, the nucleus of the whole two octave scale. F-F gave a scale approximating to the old Lydian: G-G one like the Ionian and A'-A' one like the Acelian Yer these scales could not be correctly called appears, since there was no returning necessary; and the word appears itself was unsatisfactory for other reasons. It was applied by the Pythagoreans exclusively to their perfect Dorian scale and at the same time was used to denote the enharmonic genus. Accordingly, before the time of Aristoxenos the word dropped ant of use in its distinctive sense of a modal scale in favour of the more scientific term octave species (sien rais old masses). At the same time the relation of the various octave-species to one another was better apprehended. Some were seen to be a perfect fourth above or a perfect fifth below others in the general scale. They accordingly fell into two groups thus:—

The Mixelydian was one apart by itself but the relation between the others was unficated by the use of the term 'Hypo.' The Asolian became the Hypodorian the Syntomolydian was known simply as the Lydian and the old Lydian of Plate as the Hypodydian. The Ionian became the Hypophrygian.

Parallel to this development of the lyre and the evolution of the occave-species' there are inevitably a series of scales known as research advantage of a less frequent tuning derived from the use of the eller was not an unmixed blessing. In the case of the Phrygian and the old Lydian ac difficulty areas from the fact that the range of the voice in singing was extended, a few notes at the top or bottom of the voice did not make much difference. But when it came to the Mixolydian the voice had to descend to B; for the Acolum it had to ascend to the top A". D-D or F-F' was fairly well within the normal part of the voice, which we have already assumed for the sake of example to have been E-E'; but B-B' was

¹⁰ For separate confirmation of these mentifications, ed. Beeckh, Dr. Metra Product, 1, and Athen, 624 g.

going rather low while Ci-Ci was somewhat high. What was to be done? Changing strings for a new appears was troublesome and the great advantage of the slop had been the avoidance of that difficulty, yet the sacrifice of the best part of the voice was not to be thought of. The solution which the Greeks gave to the difficulty was a simple and effective compromise. If the section of the long scale which they desired to use for a modal melody were too low to sing comfortably they raised the pitch of the kithara as a whole in order to bring the required section into range. If the section containing the closs were too high they lowered the pitch of the kithara as a whole. A turn of the cross-bar would suffice to effect this change and prove far less technois than the returning of several strings: In the scale:—

A B C D E F C A' B' C' D' E' F' G' A"

The Porian octave E-E' was fairly well in the middle range of the voice, let us say; but the old Syntonolydian from C-C' was somewhat low. By raising the whole scale two tones this Syntonolydian section was brought within the limits E-E', thus:—

Cs Ds E Fs Gs A B Cs Ds E Fs Gs A B Cs

Similarly the Hypophrygian was rather high as an octave-species and the litham had to be lowered as a whole to bring the section into a snitable range, thus:—

F# G# A B C# D E F# G# A B' C# D' E' F#

Such a raising or lowering of the kithers as a whole would be quite naturally called a roles or tightening up and the alteration necessary to bring the Hypophrygian species into the normal range would be called the Hypophrygian roles. We should therefore expect to find that the higher a species is in the typical general scale, the lower-pitched relatively is the roles of the same name; and that the octave-species found between certain absolute limits in any roles, would be the species bearing the same name at the roles. These expectations are amply satisfied by the actual facts. The two subjoined lists give the closy written in the ascending order of pitch as they stand on the two-octave scale of the Perfect System and the roles also in ascending order of potch

· *xfuura or	ethn			N	ma.	
Mixelydian	a a a	(B-B)	Hypodbrian	***	feathwiebeling	un F)
Lydian	955	(C-C)	Hypophrygian		(11	(3)
Phrygian	701	(D-D)	Hypolydian	144	1	_A)
Dorinn	again di	EE.	Dorian	1 0 44	4	, Bb)
Hypolydian	4.8.6	F-F	Phrygian	E M (0)	(8)	(3)
Hypophrygian	14460	(G-G)	Lydian	1.0	f	D)
Hypodorian	ga a	$(\Lambda - \Lambda)$	Mixolydian	de la Su	{ =	. Kb,

Thus the order of the zone is just the reverse of that of the corresponding ston, a perfectly natural consequence but a phenomenon which, as we shall see later, led to an inextricable confusion in mediacval times.

Furthermore, if we take the seven véros named and in each véros we select the octave F-F, we find that the species obtained is the species of the same name as the véros:

The most important point about these τόνοι, however, is that they arose directly in connexion with the modal scales and their only raison d'stre is to bring all the clòn within the best range of the voice. Aristoxeros himself clearly indicated this when he commenced the fifth part of his work with the words (p. 37): τὸ περί τοὺς τόνους ἐφ΄ ὧν τιθέμενα τὰ συστήματα μελωδείται and Claudius Ptolemanus several times lays stress on the point.

VIII

Did the gon have any place in the practical art of music after the time of Aristoxenos, or did they only survive in theory books ! The only argument ever brought forward against their use is that the 'species' of the fourth and fifth are also included in theory books and no one supposes that they were practical. The answer to the objection and the confirmation of the view that the elliq remained practical is to be found in the systematic work of Aristoxenos himself. He says (p. 6): Our presentation of the various methods in which simple intervals may be collocated will be followed by a discussion of the resulting scales, including the Perfect Scale; in which we will deduce the number and character of the scoles from the intervals, and will exhibit the several magnitudes of scales as well as the different figures (synpara), collocations and positions possible in each magnitude; our aim being that no principle of concrete melody, whether magnitude or figure or collocation or position should lack demonstration. This part of our study has been left untouched by all our producessors with the exception of Eratokles, who attempted a partial enumeration without demonstration . . . He failed to observe that unless there he a previous demonstration of the figures (oxyguara) of the Fourth and Fifth, as well as the laws of their melodious collocation, such an empirical process; - as that of Eratokles;

circularly tempered. Some if the male were as Mr. Torr asserts, it would be the same for every veron. It is hard to see how Mr. Torr a minute differences of internal had any limit in theory or in fact, as far as the sales are communical.

If Mr. Toer's theory of the view was manificated in Section I. He supposes that Aria-texence did not be a tempored scale and consequently that the size of the temporal scale from the property of the temporal scale. From the particle of the temporal scale and Aristoxemos and temporal scale and Aristoxemos annual access with a scale to the temporal scale and a potton. He call to the net reads and an 'potton. He call to the net reads content. Consequently are more as a source with Mr. Torr that Aristoxenes was not using a scale which age

If Harmanica, it. 8. 4 to radis the derrocci had be been red obsert. It 7: 1125 year ferror rate flaporoper it beneficies reconstruction to the engineers to the engineers of the engineers.

will give us not seven figures (of the outave) but many multiples of seven. Aristonems was the first scientific writer of Greek musical theory, and he set himself to find some principle whereby he might detarmine whether a given series of tones and sendtones was practical or not. The five tones and two semitones forming an active might be arranged in all kinds of ways, as:—

SSTTTTT; or TTTTSST: or TSTTTTS

none of which have a parallel in the actual scales in use. The method of Aristoxenos was to show first the species of the fourth (T T S, T S T, S T T) and lifth (T T T S; T T S T, T S T T, S T T T) and these to formulate the law of their melections collecation which is (Arist p 65 that no scale should have in succession four intervals of a tone and the species of the two smaller consumers should be combined to avoid such a sequence. The later theorists give the species of the fourth and fifth but do not always point out that they are subsidiary and due to a desire to bring theory into a real close relationship with practice.

We cannot leave this part of our discussion without a short reference to Macran's ingenious theory of a movable Mese. Relying on one of the Aristotelian Problems (xix, 20) which states that the melody returns often to the Mese, he concluded that it was the Mese (or central note) of the Greater Perfect System which was meant. Thus in the typical scale:—

ABCDEFGA' B' C' D' E' F' C' A"

the middle A! is the Mese. In the Mixelydian section B-B' the Mese is nour the top, in the Dorina section R-R' near the middle, and in the Hype phrygian G-Q' near the bottom. Thus a melody in the Mixelydian keeps to the high notes of the seals rather than to the low, and in that sease it is a high-patched scale. The Hypophrygian, on the contrary, uses us lower notes more frequently and so is a low-pitched scale. Mr. Denniston (Cl. Quart. 1913, p 90) has already pointed out very scrious objections to this theory and there is no need to repeat them hare. We may, however, comark that it is by no means certain that by Mese the middle nate of the Greater Perfect System was meant. It is very probable that only the Dorian scale is intended, and even if other scales are to be included the Mess may be merely the fourth note ascending in any scale 18 Still, the rejection or acceptance of Macran's theory does not involve the acceptance or rejection of the modal view of Greek prosic; it deals only with one particular view of the kind of modality. The evidence is too slender and the objections too weighty to justify an implicit belief in this theory.

¹² Sandi a view of course therefore, the new of what is known on the formerly arriveless, or nomenciature by position and not by function. It does not seem definitely before Chindres Philomaens but Aristotle, Politics, till 3

¹³⁷⁶ a seems to imply it. It may are have been the obline of the two manuscriptores of Well and Belmich, Philosophe, p. 44, n. 107.

TX.

We have now traced a modal structure in Greek music from the times before Plate down at least to a few centuries after the death of Aristoxenes. Up to this point our authorities have been Greek musicians thouselves, such as Aristoxenos, or writers compiling from older Greek sources as Aristides Quintillanus; but for the remainder of the history of modality we shall have little to do with Greek musicians. Evidence for the next stage has to be sought from an Alexandrian writer. Claudius Ptolemneus, while the final stage is found only in the ecclesiastical writers on music. The reason for this significant fact is not hard to find. The battle of Chaeronea in 338 R.C. while crushing the liberties of the Greek states, did in the long run result in a spreading of Greek culture and learning, and the new city of Alexandria gradually became one of the most wealthy and enlightened cities of the known world. The first two rulers founded the magnificent library there; and their successors, whatever faults they had morally or politically, carried on the work of encouraging the love of letters and learning. The seventh Ptolony. for example, brought from Greece grammarians, philosophers, geometricians, painters, physicians and musicians who taught the Alexandrians all they know. Under the care of such rulers, Alexandria became the rival of Athens il cell and an important centre of later Greek culture. Thus Athenaios records the proud boast that the Alexandrians were more skilled in music than all other peoples, especially in the use of kithurn and flute.

From this city came the most important musical writer of later antiquity, the mathematician Claudius Profemacus, who brings out very clearly the modal structure of later Greek music.

We have already described the way in which the various two-octave scales, the voice, arose from the necessity of keeping melodies within the best range of the voice. At first the relative pitch of these topos was not rigidly fixed. Aristoxenes (p. 36) says: The fifth part of our science deals with the keys in which scales are placed for the purposes of melody. No explanation has not been given of the manner in which these keys are to be found. or of the principle by which one must be guided in enunciating their number. The account of the keys given by the Harmonists closely resembles the observance of the days according to which for example the tenth day of the month at Cormin is the fifth at Athens and the eighth somewhere else. Just in the same way some of the Harmonists hold that the Hypoderian is the lowest of the keys; that half a tone above it lies the Mixelydian; half a tone higher the Dorian; a tone above the Dorian the Phrygian; likewise a tone above the Phrygian, the Lydian. The number is sometimes increased by the addition of the Hypophrygian clarinet at the bottom of the list. Others again, having regard to the finger holes of the flutes, assume intervals of three quarter-tomes between the three lowest keys, the Hypophrygian, the Hypodorism, and the Dorian; a tone between the Dorian and the Phrygian; three quarter-tones again between the Phrygian and the Lydian; and the

same distance between the Lydian and the Mixelydian. But they have not informed us on what principle they have persuaded themselves of this location of the keys. In practice the difference of a quarter-tone or semitone is not serious, but a theorist desiring to find some system in the usage of musicians must fix the relative pitch of the rosos. This we know from later writers was one of the great achievements of Aristoxenes. He himself in his extant writings only mentions six rosos, but the result of his labours was to fix at least theoretically a rosos on each semitone of the octave, making thirteen rosos in all:

Now it is clear that if the only reason for the evolution of the vorm was the desire to sing all the modes in the best range of the voice, there is no need for thirteen raper. One rapey for each made, making seven in all, would be sufficient. Why Aristovenes devised a scheme of thirteen it is difficult to say, but possibly he was midded by an excessive desire to systematise the art; for the seven rores system would make the Mixelydian and the Lydian a semitone apart while the Lydian and Phrygian would be a whole tone apart. That may have seemed unmethodical to Aristoxenes and led him to introduce his so-called Asolian vovos between the Phrygian and Lydian and in a similar way to put a voices on every semitone. At any rate so large a number of keys was unnecessary. The first writer to point this out was Claudius Ptolemaeus, who wrote during the middle of the second century of our ent. He himself, to judge by the cold, aupartial tone of his work, was summing up the work of many generations of theorists and unsicians. A mathematician himself, he had a bias towards the Pythagorean school but he eritinises Pythagoras and Philologe no less than he does Aristoxenos. Possessing a more panetrating mind and a liner judgment than his producessors he does not leave out of account, as so many theorists do, the practical art of music in his discussions. In spite of his pedantry, his erabbed style and his speculations on the zodiac, his work remains as one of the sanest. most crudite and valuable books on music which we possess.

Ptolemy realized very clearly the real function of a roso; as being not a more raising or lowering of pitch but a means of bringing all the modes into one compass. The mere realization of the function of a roso; was as Ptolemy saw sufficient to determine the number of roso, but it is characteristic of Ptolemy's thoroughness that he proves his point carefully be an appeal to the actual practice of kithara players. This part of his work is well worthy of a fuller description.

We have seen already that each note of the Greater Perfect System had a name derived originally from the position of the corresponding string on the instrument, but in the course of time the names no longer implied to the theorists the position of a string but the function of a note in its relation to the other notes of the scale. The Mese for example was really the middle string but later it was defined as "the lower note of the disjunctive tone which lay between the terrachord Meson and the tetrachord Diezeugmenon." There is reason however to believe that the players on string instruments continued to call the lowest string the Preslambansonerus.

the highest the Nete and the middle one the Mese. There were thus two ways of naming and regarding a note, one by its functions in a scale (xarâ δίναμα), the other by the position of the corresponding string on the lyre or kitham (xarâ θέσιν). No confusion arose from this duality of nomenciature so long as the kitham was raised or lowered as a whole for each change of rôves; for then the Mese xarâ δίναμαν would always be connectent with the Mese xarâ θέσι. But the insistence of Ptolomy on these two different nomenclatures shows that some difficulty did arise in tuning (ii. 5). What was this difficulty?

In earlier days it had been found easier to being a new silver into range by means of a vince than to after the strings of the mode already in range. That was a matter of practical convenience and, as we have seen, the only reason for the existence of the vices. Long before the time of Ptolemy however the hithurs had been so elaborated that it became possible to raise the putch of any string a semitone mechanically in passing: that is to say, it was now easier to after the mode within range than to time up the whole of the inthura. The effect of this process will be seen better by an example. Take the Dorian views:—

where the middle By is both the Mese sura divagus and the Mese sura flour also, and the section F-F' the Dorian Octave (S T T T S T T). If the player desires the Hypodorian mode he has two methods of obtaining it, the old method and the newer one. By the old method he would turn down the whole kithars to the Hypodorian roose commencing on F and giving the Hypodorian octave species in both the octaves F-F'. But since the chaboration of the kithars, it was no longer tedious to alter a few strings and the hitharist had at his disposal a very easy method of obtaining the required node. By raising the G5 in the Dorian zaros which he had already be found within the octave F-F' the Hypodorian sequence, T S T T S T T and the whole scale stood as —

Bb C Do Eb F C Ab Bb' C' Db' Eb' F' C' Ab' Bb"

The middle Bp hare is still the Mese kara deau, but in reference to the Hypodorian resectit is the 'paramete diezeugmenon kara deau,' the lower Bp is the produminanceness kara deau but the 'hehanos hypaton kara deau, and the produminant in modern terminology, we have here a Hypodorian recommending not on the tome but on the subdominant. By raising the Dp in each octave also we obtain a Parygian recommending on the 'leading note' or seventh degree of the scale. Similarly by raising the other notes we obtain other raise commencing on a note which is not their real tenic but giving within the octave F-F' a new mode or octave spaces.

Ptolomacus however points out that there are only six notes which we

can raise thus (ii 11), for when we raise the seventh (C) the Mess card Béar once more coincides with the Mess card biwager, and we have no new mode but only the repetition of a former one a semitone higher. But the object of a new rows is to obtain a new mode; therefore the eighth rows formed by mixing the seventh note is useless and seven rows are sufficient. These seven essential rows are bare given with their Produmbanomenoi card covague in ascending order of pitch:

Hypodorian ... F
Hypophrygian ... G
Hypolydian ... A
Dorian ... Bb
Phrygian ... C
Lydian ... D
Mixolydian ... Eb

There is no need to point out at length how decisive the work of Ptolemy is for the contention that modality was the basis of Greek music and the connecting link between that and our own. Ptolemy himself is not an innevator but an energetic scholar who sums up the results of centuries of work. The number of essential zones must have been realised long before him; he was the first to treat the subject fully. One point however must be clearly understood: the zone as they existed in practice in the time of Ptolemy were called zones but actually were modes pure and simple; for the scheme of the kithara was changed with the alteration of every string. Ptolemy himself realised this fact but later mediaeval theorists failed to perceive it, as will be seen shortly.

X.

The most vital part of our work is now complete and it should be clear that Greek music was modal down at least to the time of Ptolomy. Few would deap that the modes as we find them in Ptolomy are the basis of the titurgical music of the Church and consequently the ultimate basis of modern music. At the same time it is not an entirely easy matter to thread our way through the theorists of the middle ages and we must be prepared to find there misunderstandings and mistakes which, however interesting they may be served only to add confusion to an already difficult subject.

The Christian church, whose minor giory it is to have been the musical link between the Grocks and ourselves, had its obief seats in cities which were Greek in culture. We have seen how Alexandria in particular had become one of the greatest centres of Hollenic culture, influencing the whole Mediterranean civilization. Rome too awad a great debt to Greece in music as well as in literature; and whatever the aboriginal music of Italy may have

been, all traces of it were lest by the end of the Punic wars. In the time of Cicero some connecesseurs could recognise the music of Greek choruses after the first few notes had been played. Vitruvius too shows the Aristoxenian theory in vogue in Rome in the time of Augustus. Many of the extant pieces of Greek music date actually from the early Empire and most of the theoretical works were written during that period. As far as music was concerned the Mediterranean civilization as a whole was entirely indebted to Greece.

In this atmosphere of Greek culture the Christian Church grew strong. and it was Greek rather than Hebrew music which became the foundation of the liturgy. 20 The influence of music on the spirit was clearly recognised. and in accordance with the advice of the Apostles sacred songs were freely used.24 Roman and Corinthian and Alexandrian proselytes were accustomed only to Greek music, and the sacred hymns of the Church would of necessity be based on the kind of music then in vogoe. 'Scenlar and degrading coremonial forms would naturally have been rejected as unworthy of imitation and models would be looked for in the graver kinds of music, in the hymna to the gods, and the long nurrative cantatas of the Gracco-Roman kitharodor; but it will still remain none the less evident that the music of the Christian ritual from the nature of the conditions under which it came into being must for a long time have resembled in its general outlines the music which was going on around it. We should therefore expect to find deeply marked traces at least of the Omeco-Roman practice in the first efforts of the Church. And turning to the oldest Christian compositions, the hyune and antiphons of the Office of which the earliest examples date from the fourth century, we find these expectations amply justified."22 By this time the diatonic 'genus' had won its way to absolute supremacy. Even in the time of Phytarch the enharmonic was falling into disuse and Gaudenties in the fourth century tells us definitely that both the enharmonic and chromatic had become obsolete

Perhaps the most interesting link between the Greek times and our own is found in the Water-organ. This instrument was invented by Ctesibius, an Alexandrian and contemporary of Archimedes (230 k.c.). Its use spread rapidly, and Vitrovius gives us a detailed description of it (De Arch. 8.8). It was employed early in the Church, and is mentioned frequently by occlesiastical writers. The early adoption of this instrument may be regarded as a definite indication that Christian music was none other than

Woodsleidge, Oxford History of Munc,

Die Joud Pr. ii, 7. Quam multa, quae nos fugiont, in sente examiliant in so genera executati i qui prime inflata tibianis Anticipin com alant aut. Antroposbate unis ul ion au suspicionur quitiem.

^{2 1. 4.} Movin (Lee Freehalds Original day Chart Grégories, 1904) would have un believe that the arminostal includies were Hobrew and auterior to the ephable music of General Lee Mologue Autique deux le Chantife? Egiliet.

³¹ Cl. Eumhur, Hist. Ecoles, v. 28, 5; Augustine, Confess, iz. 7; John Cotton, esp. 2; Pambo, Geronolou (Gerbertus, i.).

Tertalhan, De Anon. 14; Cassioderus, Expunitie in Past. ct.; Indicens, Especid. iii, 21. ct. Rev. die Et. Gr. 1896, p. 23; Philologes, 1906, Ivv.

the contemporary Greek music; for unlike the string instruments, it could not be retuned once it was made.

The first important name we meet in connexion with Christian music is that of St Ambrose, Bishop of Milan about the year 360 a.p. Until quite recent times there was a tradition firmly believed that he took from the Greeks four modes and made them the basis of liturgical music. Such a view is no longer held, but it is undisputed that St Ambrose did introduce into Europe what is known as antiphonal singing. This style came actually from the Greek city of Antioch, and after the experiment of St Ambrose, Pape Celestin (422-432) authorised its use throughout the Church 24 St Augustine in his Confessions describes the warming effect of this change on the minds of listeners. But no old writer is found to attribute definitely to St Ambrose the introduction of Greek modes into the masic of the liturgy. By the natural sequence of events they had been there from the

beginning

It has already been hinted that the mediaeval theorists are confusing and the source of the confusion is to be found in the work of a non-Christian writer. Boethius For Latin readers he transcribed as beat he could the elements of the arts and sciences of Greece, geometry, arithmetic and music, In music he seems to have taken for his basis the work of Ptolomnicus; but he transcribed Ptolemy so budly that Gevaert doubts whether he know the Alexandrian work at first hand. Chapters 13 to 17 of the fourth book of his Institutio Musice contain the gist of the trouble. He commences by giving the seven species of the octave, first by numbers and references to a diagram, secondly by names. We find that whereas Kloomdes and other writers give the Mixelydian as the first species and the Hypodorian as the seventh, Boethius has reversed the order. That may of course be a purely arbitrary arrangement but it is very suspicious when we remember that the order of the octave species is just the reverse of that of the keys (voros) (of Sect. VII.). Has Boethins mixed them up? A glance at chapters In and 16 at once convinces us that he has, for his language is vague and the table he gives with a curiously garbled Greek notation for the seven modes' is actually a list of the seven rown of Ptolemy coch extending to two cetaves. Furthermore he adds a Hypermixolydian 'mode' marking is as the highest and the Hypodorian as the lowest. This eighth 'mode' (he acknowledges it to be 'incongramm') is explained by saying that Ptolemy mided it. As a matter of fact Prolomy devoted a whole chapter to proving that there were only sevent octave-species and therefore only seven voros (in 9). What has happened ! It has already been pointed out that the voice given by Ptolemy are really modes even though they rotain the old name of toron Boethius seems parily to have realised this fact but failed to see in what way exactly the voros of Prolemy came to be modes. Consequently his list of 'modes' is really a list of the rown and as a further result, we find them in

²⁴ Theodoreton, op. Caminderne, Hist. Ecoles. Pripare, v. 33; Initerns, Ecoles. Offic. 1–7 & Liber Postifically, vol. 1, 230.

the reverse puch order of the octave species of older theorists. The three lists in ascending order of puch are:

Ottoro-species	"Inn of Philips	" Midden" or Building
Mixolydian	Hypotherian	Hypodorum
Leydman	Hypophrygian	Hypophrygian
Phrygian	Hypolydian	Hypolydian
Dorinn	Lhariran	Dorian
Hypolydian	Phrygian	Phrygian
Hypoplarygian	Lydian	Lydian
Hypodorian	Mizolydian	Mixelydian
-		Hypermixolydian

A further example of the growing confusion in nomenclature (and consequently in theory) is found in an interesting letter which Cassiodorus, the first Christian writer on music, sent about the year 508 A.p. in the name of the great Theodoric charging his friend Boethins to choose for the French king Clovis a talented kithers player. In this letter we have mention of five 'toni with their names and a description of the orients they had upon the emotions of men, and it seems that Cassiodorus is really referring to the modes and not to the keys. As we shall have occasion to remark, later theories argued at length about the proper word to use, 'modus' or 'tonus'

Already in the Institutiones Musicae of Cassiodorus much of the Church liturgy seems to be fixed; but the only theory which is given is a garbled version of the old Greek one. These early writers seem to have looked definitely to the Greeks as their musical ancestors, but in the actual composition of melodies they modelled their work on concrete examples rather than according to a rigid theory. Violent changes of principle or farmaching unnovations of course played no part in the musical history of this period. The art of composition was conducted along well-worn channels even though the theory was growing dim and confused. After the political events of the last balf of the sixth century all real knowledge of the old theory died away and St Isidore early in the next century can scarcely understand Borthius or Cassiodorus.

From this point until the ninth century we find no musical treatise of any kind though the composition of melodies continued steadily. The silance is broken about 850 a.b. by a certain Aurelian in his Musical Disciplina, where a new theory makes its appearance. After a poor account of the old Greek theory be mentions eight toni, four authentic and four plagal. So far as we can judge during the centuries intervening between Cassiodorm and Aurelian the churches of Asia Minor had evolved for their own convenience a new theory. It was seen that the vast majority of melodies ended on one of four notes. Some melodies never went below these. Finals, others went as much as a fourth below. The melodies which did not go below the Final were called authentic, the others plagal. Thus on to the old music a new theory was grarred.

The next and most interesting stage is the grafting of the mistaken theory of Boethins on to the new theory of the modes. Notkerns, a Spanish writer of the tenth century, gives the first indication of it; for in his treatise he gives the eight modes (he does not make up his mind whother they are 'modi' or 'toni') in ascending order as: Hypodorian, Hypophrygian, Hypothydian, Dorian, Phrygian, Lydian, Mixolydian, Hypermixolydian, which are just the modes of Boethins. Thus the lowest of the seclesiastical modes is equated with the lowest of the pseudo-modes of Boethins.

In the same century, Guido stands alone in refusing to bow down to Boethius whose book is 'of no use to musicians but only to philosophers' By the end of the eleventh century however the matter has been definitely settled. The modes are now called 'toni' and John Cotton (chap. x.) gives them fully as:—

1 Procus Authenria	ia. ii	Dorian :: -	10-1	(D-D)	Finn	1)
2. Protus Plagulis	140 1804	Hypodorian	- 4	[A-A]	le l	()
3. Deutsrus Authoritis	ladı isai	:Phrygian	1	(E-E)	113	E.
4. Douterns Plagalis	5=2	Hypophrygian	5.24	(B-B)		E
5. Tritis Authoritis		Lydian		(F-F)	90	H
0. Tritus Plagalis		Hypolydian	- Olive	(CaC)	gree .	F
7 Telandie Anthentin	170	Mixolydian	-71	70-61	rr. I	0
8 Tetradus Plagalis	e -	Hypomixolydian	2000	113-11		GI.

It is noteworthy that the Hypermixalydian is now called the Hypomixelydian and can in no sense be said to be the highest mode (supremus) as Notkerns stated.

In this state the ecclesinstical modes have remained until the present day in the liturgy of the church. The manner in which modern music was gradually developed from them can be found in any work on musical history and need not concern us here. But before leaving the subject however our results may be seen to miventage in tabular form.

(1) The elon or octave spacies are in the reverse order of pitch to the seven raise of Ptolemy :-

This alby microsling.			The view of Protony ascending					
Mixelydian		(B=B)	Hypodorian			immunge	g mil	I.
Lydiana	1.11	(C-G)	Hypophryg			-	nin	
Phrygian	H	(D-D)	Hypolydian	44"	110	-		A .
Dorian	10.00		Dorsner	4.1	t m1	447		Ho
Hypolydian	0.00	$(\mathbf{F} - \mathbf{F})$				-	101	Ti.
Hypophrygian	140	(G-G) (A-A)	Lydian Mizolydian		-+><	-		E,
Hypidorian	-44	ter_tel	assaultanina	m į		Bi-	- 13	148

(2) Boothius vaguely transcribed the reser of Ptolemy as modes; the ecclesiastical writers gave to the lowest of their 'modes' or 'tones' the name of the lowest of the pseudo-modes of Boothius thus:—

42 GREEK MUSIC AND ITS RELATION TO MODERN TIMES

Senter of Budhim area	ading:	Liturgical Tome assenting				
Hypodarian	. F	Hypodorian (A-A)				
Hypophrygian	., С	Hypophrygian (B-B)				
Hypolydian	A	Hypolydian (C-C)				
Dorius	Bo	Dorian (D-D)				
Phrygian	. C	Phrygian (E-E)				
Lydian or	. D	Lydian (F-F)				
a part of the contract of the	. Eb	Mixolydian (G-G)				
Hypermixolydian	. 1	Hypomixolydian (D-D)				

(3) The Greek octave-species do not as a consequence correspond with the liturgical modes of the same name:—

		General erom	Littingiant Tones
Mixelydian	11	В-В	G-G
Lydian	asa ta	C-C	E-E
Phrygian	-0.1	D-D	E-E
Dorinn	717 70	EE	D-D
Hypolydian	-7- 1-1	FF	C-C
Hypophrygian	er i	GEG	В-В
Hypodorian	488 (0	A-A	Λ - Λ
Hypomixalydian	main a	_	(D-D)

What then are the general results of our investigations! Greek music was model in structure before the time of Plato in the form of the approvar; it continued so in post-Aristoxenian times in the form of the elon rob old warder; and remained so at least as far as the time of Claudies Ptolemaeus. This model music became the foundation of the church liturgy and though the underlying theory became obscured during the middle ages, the music itself remained assentially model. Thus the connexion is not as difficult to trace as some authorities believe or as well defined as others have assumed. While on the one hand it is not a fully documented and demonstrable fact it is on the other hand far more than a hazardous conjecture. As far as we are likely to know, it is, in the main outlines at least certain and real; and we may without exaggeration regard modern music as the lineal descendant of Greek.

J. F. Mountronio.

The Dairring Blackingh

CORNELIUS NEPOS. SOME FURTHER NOTES.

In an article published in the last volume of this Jouenal, Mr. How discusses the problems of the Parian expedition of Militailes and the Battle of Marathon, in the light of recent views. The version given by Nepos of these events I subjected to an analysis in an article published just before the war and I came to certain conclusions in regard to the sources used by the Roman historian. Mr. How agrees with me in accepting the general view that Ephorus is the chief inspiration of Nepos. He refuses however, to credit Ephorus with any more special knowledge than that which a student of Herodotus might acquire. Ephorus is, in fact, the rationaliser,

and a poor one at that, of Herodotus.

The problem raised by Mr. How is whether we are going to accept the account Herodotus gives of Marathon and Paros or the rationalised version of Ephorus Without besitation Mr. How accepts Herodotus and rejects Ephorus root and branch. Here I must associate myself entirely with Mr. How in his appreciation of Herodotus but cannot help retaining a proference for some of the elements of the Ephorus-Nepos version of events at Lemmos, Marathon and Paros. Herodotus, it goes without saying, is vastly the better historian as a rule; but his account of this period of history breks exactly that discrimination and rationalism which he applies elsewhere with such success. Because Ephorus is a rationalist he need not be condemned then and there. To be a rationalist in the fourth century a.c. meant, amongst other things, that one made errors and that one interpreted early history in the terms of later. That Ephorus did this is, also only too obvious. But the rationalist of those times had the advantage of being able to examine evidence of authorities which have since perished. In the process many scraps of evidence from such authorities were kept, and the preservation of the rationalist version implies the possibility of the survival of fragments of records which have otherwise perished. I can make myself clear by referring to a few points in the Ephorus-Nepos secount of Murathon. Lemnes and Paros. My own view is an fond entirely in agreement with that of Mr. How, but in his determination to dispose of Ephorus he has swept away everything which that historian might have bequeathed to us

Marathon, perhaps the most important battle in antiquity, is the least accurately described. So to day the modern counterpart of Marathon—the

battle of the Marne-still remains wrapped in obscurity; as far as I know. there is no complete and accurate account of it. The problem of the cavalry at Marsthon, as explained in modern theories, finds a parallel in the sadden. decision of You Kluck to change his direction. The emise of obscurity in each case is much the same; the importance of the result overshadows the events that led up to it. To press the analogy still further, a modern rationalist, writing a history of the Marne, would examine all the mimerous theories even that which attributed Von Kluck's turning to his fear of Russian troops landed at the Channel ports. The modern rationalist, particularly if he were French and not a high military official, would present us with a next version of the battle with the edges well rounded off But here and there in the account there would be scraps of new and perhaps startling information. So too Ephorus. In the case of Marathon I take as such scraps; (1) the story that the Greek position was in radicibus monthum; (2) the normars, by which something approximating to harbed wire supplied the Greek lack of caveley; (3) the use of their involunties position to prevent enflude-or in the words of Nepon 'at montium tegerentur attitudine."

The first I accept as good information, whatever its source because it is entirely confirmed by the evidence of the battlefield. There within easy range of the Sores is a mountain spar (Mt. Agricilia) between the end of which and the sea—a very narrow space—the Porsians could have to pass. Deployed at its foot the Greeks would be masters of the strategy. Safe against encarelement they could strike the Persians on the flank if they attempted to march on Athens, just as Maunoury launched his army at Von Kluck when that general was marching on Paris. The actual beginning of the battle was brought about. I imagine, by the very movement the Greeks had anticipated. A charge from the mountain spur on to the flanks of the Persians would bring about the conflict exactly at the Sores.

The second and third points rest on their own merits. Troops cutrenahed traditionally employ obstacles. The men of Marathon were none the less beroes if they did so too. They also protect their flanks; it not, they are unworthy of sheir weapons.

So much for the rationalism of the story. At least it makes the battle a reality. The presence or otherwise of the cavalry is of less importance if the battle proves to be a counterpart of the Marne. All arms, even cavalry, can be destroyed by infantry if caught in the flank. The Persian may well have been fool enough to imagine that his numbers entitled him to treat the Greeks as a contained force and march straight on Athens. If You Bullow could commit the prowning folly of sending his formations across the from of a great but despised Allied army, it is not unreasonable to pross the analogy in the case of Hippias or the Persian leader.

Nothing anticient to justify this amount of reconstruction is to be found in Herodokus and this much can be said in support of Ephorus; that the three points quoted above are perfectly legitimate information and do not have the appearance of being the product of his inner consciousness.

Mr. How, on the other hand, still adheres to the theory (p. 53) that the battle was precipitated by the division of the Persian forces, a riew that rafies for its coxency upon the authority of Suides. I must confess myself to a preference for the outline which is suggested by Ephorus who, if no better, is at least as good evidence as Suides, and whose view has the additional

advantage of agreeing with the lie of the ground.

In regard to the numbers of the Persian army I should be surprised to find the figure given in Nepos of 200,000 infantry and 10,000 cavalry in any rationalist account of the battle. I have visited the field of Marathan twice since the war and feel little basitation in declaring that the ground available for the batale could barsly contain more than five divisions of the British type (20,000 strong each) drawn up in parade order. Even then there would be but little room for manusurve. This shows that Ephorus was not such a skilini rationalist as one might believe and that he drew from sources which were at times incorrect as well as correct. In view of the statement of Polyhins that Ephorus knew nothing about land warfare it seems still less likely that he has given us a morely rounnaist account of the battle. Had he done so it might well have been unintelligible. As it is, the intelligibility of the account is derived from the new sources from which be strew.

In regard to the Lemman expedition the Nepos-Ephorus account is again purely rationalist in appearance. I have already dealt with this in my paper referred to above. The divergence in this case between the accounts of Nepos and Herodotus is not great, but what difference there is a marked In Nepos it is all described in a intronalistic way as part of a policy and not as the wild mid that Herodotus makes it out to be. Mr. How would, I imagine, condemn it as useless and unconvincing rationalism. Fortunately there is in existence an inscription from Lemnos, found in 1910, which the finders, MM. Picard and Reinach, attribute to the time of Militades. The inscription sets forth a list of Atheman kierouchs and seems to justify the view that the visit of Militades either in the first or second instance was part of an official Atheman policy as described in the Nepos-Ephorus account. Here again we find the intionalism of Ephorus supported by fact. At Marathon it was the facts of nature, here it is the facts of archaeology.

There remains the Parian episode. Mr. How admits (p. 50) that Ephorus gives what is on the face of it the more probable story, but he again considers it as an interestee from the account of Herodotus. This may well be so, but it may equally be, as I suggested that it is an inference from evidence other than that of Herodotus. Here, as elsewhere, says Mr. How (p. 60). Ephorus gives us little more than a plausible out shallow attempt to rationalize the biassid and defective tradition preserved in Herodotus. All of

i all 230

^{* #} C.H. miz. p 230

The alventages of the policy of holding the transmelles were made obvious to Athens by the explora of Hierbern and the Leahing.

as Symptom (Mdt. vi. 5). The sum hyper of the Galilpoli positions of the time of Militaries support the rick that he was acting on authority from Atlant.

this may be only too true and we can well picture the luckless Ephorus. racking his brains over his Herodotus and hoping for light to dawn in his inner rationalistic consciousness. But, as I suggested above and as the accounts of Marathon and Lemnos seem to suggest, Ephorus had something besides Herodotna. What that something was I suggested very tentatively in my paper. It was there proposed that some independent writer preserved in the time of Ephorus gave an account of the Persian Wars and based his account upon Philaid memoirs. The name of Dionysius of Miletus was suggested as a mere conjecture. Fortunately for myself I left it in the realm of conjecture because Mr. How's strictures upon the probability of the writer being Thonysius are very convincing. Mr. How has further contributed an important addition to the discussion by showing how Herodotus himself drew from Philaid traditions. But the fact that he drew from Philaid sources as long as they did not conflict with his Alemaconid descriptions makes it the more probable that Philaid stories, at any rate, in his time were to be had for the asking; and some such stories, I take it. fell later into the hands of Ephorus whose account, as given in Nepos, cannot, with all its faults be dismissed as rationalistic moonshine. Its facts at times fit with a most disconcerting exactness into the facts as we know them from other SOUTES.

S. UASSON

^{*} The Schollast on Finder suggests that Gelo of Syracuse: F.G.H. L p. 264.
Ephorns followed Pinder in his account of
* See p. 87 of any article.

THE HEROIC SOPHROSYNE AND THE FORM OF HOMER'S POETRY.

As Epic is not made by pisting together a series of herela lays, adjusting their discrepancies and making these into a continuous narrative. There is only one thing which can make the perplexed shiff of opic material into unity; and that m, an ability to see in particular lemma experience some significant symbolius of same's governed deathry. We do not appreciate what because that me his time, and is still deling for all the world, unless we see the warfare and the adventure as symbols of the primary coorage of the And it is not his marale, but Boner's are that does that for a — has makes Assurances as. The Epic

I THE MODESTY OF DIGMEN

PANDAR has shot his arrow at Menelaus. The truce is broken and the critics have been fretting for a display of Agamemnon's provess ever since they heard the promise and incitement of the Lying Dream. Now, at last, they think Agamemnon will lead the attack, and the story can develope. A king ought not to sleep all night, said the Dream; and now, with the truce broken, and his precious brother wounded, Agamemnon will surely wake up. He does. Then you would not have seen Agamemnon sleeping nor shirking, but very eager to the fight. He left the horses and the chariet ... and wont on foot ... To the battle! No, to review his forces.

The critics relapse into despondency, while Agamemnen goes his rounds. When he has fluished, it is not he, but Diomed, who parforms the prodigies and wins the glory. Could anything be more provoking—to a critic who wants to get the Trojans to the ships before anger has had time to car into Achilles' soul! It is small comfort that Diomed disposes of Pandar. Even here, the critics notice. Hence displays a lamentable obtuseness to the moral issue. Pandar has broken selemin oath and covenant. Yet Homer lets him die without a word of reprobation. They do not notice that Athene guides the spear of Diomed through Pandar's perjured tongue. Is not that better art than a dissertation on punishment and crime!

But Diomed has nobler quarry than Pandar. Egged on by Athens, he actually wounds the goddess Aphrodite, and subsequently overthrows no less a warrier than Ares. Surely unpardonable in Homer to allow mere Diomed to do such wonders when the hero Achilles is to have no nobler victim than the mortal Hector?

But there is another shock to come. Fresh from the overthrow of his divine antagonists. Diamest meets an ordinary though heroic mortal, and

straightway moralises about the impropriety of mortals lighting gods (vi. 128). Has Homer forgotten so soon? Or shall we rather say that the dialogue with Glankes is a 'patch, originally unconnected with the Aristeia of Diomed, and fitted in by some "reductor," to serve as a transition from the fighting to the quiet homes of Troy?

I venture to think this orthorsus will vanish into air when once we undentand the artistic purpose of the opisode. I tromble us I write: Because I remember that my friend Dr. Leaf has found; between the liero's exploits and his talk to Glankes, 'an inconsistency that admits of no palliation. Yet I believe there is nothing here to palliate, human nature being what it is. and Athene being, after all, a very mischlevous, as well as an ingenious goddess. It was she who made Pambu break the truce, then punished him for breaking it. It was she who maited modest Dionard to fight and wound her Olympian rights. For Dinmed is really modest. That is why it is appropriate for him, above all others, to win triumphs after Achilles has left the field, while the results of Agamemmon's pride are still impending. It is his modesty that gives significance to the whole opisodo melading the light comedy of the encounter with what Dr. Leaf, in somewhat awestrack language, calls the great powers of beaven '.' and that is why his modesty is stressed both in the preinde. Agameumon's review, and, in the epilogue, the meersow with Glaukos;

The poet who created the *flind* worked on a large plan, with no fear of padants and with no anxiety to havry his work to its conclusion. Having first described the quarrel between Agametanon and Achilles, he has made it more significant by showing as the background of the larger quarrel between Oresh and Trojan. He has symbolised the larger using by pitting Moneians, the wronged husband, against Paris, the wife-stealer. Merelaus has fought better, but Paris has been saved by Aphrodite. And then, the prelade finished Pandar has conveniently broken the trace. The stage is cleared for action. Let the fight begin.

Agamemon, we know is in the wrong. His droden must not come until be has suffered, and has offered some amounds. His confidence must be followed by deteat. Once he has played his part, the Greeks must be pressed back to the ships there to less many men and to suffer the last agent of humiliation, before Achilles whom through Agamemon they have slighted, returns to change the fortune of the day, to win the victory for them, and to suffer his own tragedly. Once that great movement has begun, there is no room for exploits from Adamean herous, save Patroclus and Achilles. And yet, if the defeat of the Achaems is to matter, the Achaems must have a chance to show how wonderful they are. Even without Achilles, fighting only with the best man after the son of Peleus, they must perform great prodigies. So Diomed has his day. But it is equally important that Diomed, however brilliant should not as absorb one imagination that the

Professor field way reminds me that mail barbarous foreign divinities, and to be Aire and Aphrodite are still regarded as treated so seriously as the great Olympians.

subsequent performances of Hoctor, Patrocius, and above all Achilles, leave us cold. The critics, if they could believe that Homer has a sense of humour, would perceive that Diamed, with all his bravery and his nobility of gesture, is, in fact, engaged upon a series of adventures in which the element of comedy, not tragedy, provails. It is, indeed, an exploit to wound Aphrodite and Ares. But is it tragically great? Can it compare for tragic greatnes with the killing of Patrocius by Hector and the revenge of Achilles for his friend? It is precisely because he must not overshadow Achilles that Diomed is pitted against gods. Because the gods in Homer, magnificent as they are are less smoons less important morally, than men. Where the gods intervene, except when the main tragedy of Achilles is concerned, they

generally bring a touch of comedy.

Lastly, the episode of Diomed if it is to enhance the effect of the whole poem, not simply to delay the action; must be relevant to the main theme of the Iliad. But unless we state that theme correctly, we cannot judge the relevance or the irrelevance of episodes. The thome is not the siege of Troy, but the wrath of Achilles, with all that it implies, both about the siege of Troy, and about human life in all times and all circumstances, Mr. Abergrombie, who speaks with the authority of a poet, has pointed out that 'the whole meaning of Homer' is most clearly indicated in such words as these of Achilles to Thetis: 'Mother, since thou didst hour me to be so short-lived Zeus .. should especially have bestowed honour on me. He has rightly linked these words with Sarpedon's challenge to death: Douth ends everything so far as he is concerned ; . . his courage looks for no reward bureafter. No; but since the thousand fates of death are always instant round as; some the generations of men are of no more ascent than leaves of a tree ... he will stand in death's way. The hero, in fact, in one who "knows himself" to be a mortal man, and who is therefore brave and generous. Achilles has chosen become and a short life rather than normal undistinguished prosperity. Honour is his chief motive and his honour has been outraged by Agameianon. Therefore he withdraws from the fight. But as the days pass, he becomes hitter. His just indignation passes into excess. Agamemico in defeat, will pocket his pride, and offer generous amonds. Achilles will refere and put himself in the arong. Then in the sequel, he will let Patroclus take his own place and face Hector and be killed In his remorse and fary against Hector, Achilles wall forget his grodge against Agamemnon, and will forget what is more important, the common decencies of the Homeric warrier. The measure of his passion is the measure of his love for Patrochia; but its result is tough. At the end Achilles, too, will realise that he is only a man. Priam and Achilles together end the drains. The old king secognises in the murderer of his was a man. with simple human relations, with human sorrows, like himself. Achilles recognises in Priam an old sad man. Know thyself, said the later Greek morality, and knowing that thou are mortal, be moderate. That is the spire in which Homer make his pomit end with the meeting of the onomics, and makes Achilles think of his own father Pelens as another Priant.

Alas, unfortunate? Indeed the servous you have had to bear are many. And your courage—to come alone to the ships of the Achaeans, to face the eyes of him who has killed your many good sone—your heart must be of steel. Nay, sit you down, and let us leave our griefs to lie stored up in our hearts, in spite of all our grieving, since in chill hamouting there is no avail.

This is the fate that the gods have span for us poor nortals, to live in sprow; the gods alone have none. There are two jars that stand in the house of Zeus, filled with the gifts he gives, the one with ovil gifts, and the other with good. He for whom Zeus the Thunderer mingles the gifts, sometimes encounters evil, but sometimes good; while he to whom Zeus greeth only of those hitter gifts, is made accursed, driven by exil hunger over the earth, a vagrant and an outlaw from gods and men.

So to my father, Peleus, the gods gave splendid gifts from his birth up. He surpassed all other men in happiness and wealth. He was King among the Myrmidens, and though he was but a mornal a goddess was made his bride. Yet upon um also the god land an avil. No men of princely some was born in his halls. One there was, born out of due him and L who am that one, instead of tending him in his old age, sit here at Troy, very far from my fatherland, troubling you and your children.

And you, sir, too—we hear that in other days you too were lappy. Through all the lands between Losbor, Phrygin and the great Hellespont they say that you sir, were pre-eminent, surpassing all with your wealth and your sons. And now, because the gods of heaven have brought this for your sorrow, always about your city are battles and the killing of mass. Bear up. Give not your heart to insamable lamenting. You will not avail at all by grieving for your son. You will not raise him from the dead—ere that, you are like to live and suffer some fresh evil.

It is no needent that the Hind, which began with the wrong done by Agamemnon to a supplicant old man, ends with the right done by Achilles to the holpless Priam. Nor is it an accident that, at the moment when becomes to know himself—to recognise in the sorrow of Priam the common himself to which he himself is subject—Achilles speaks of the lost that we past human creatures can expect, as not perfect happiness, but a due admixture of cirl and of good. I submit that, in the spisods of Diamed pitched as it is and should be at a lower level, the poet has not failed to give us something relevant to the great issue of the poem as a whole, the issue of our tragic and yet splendial destiny our mortality, with its mixture

tion, and the Mile

^{(32) &#}x27;yans men't must be of med.' See gail 357. Hestor's last words are recalled. When Abhilles has told him that not even if

Priam seeks to came on the body, will be give it back. Hertier replies Your heart is of stool.

of good and of inevitable evil. The terms of the analogy will be Greek, not Christian. We shall hear of Aidos, not of faith, hope and charity.

On bank to Agamemnon, reviewing his troops. Son how this general, brazen-helineted-I had almost said, brase-hatted-tream his subordinates. No one I think, who has had experience of military methods will complain of this high comedy which the critics criticism processly for the invidenta which make it true. Watch Agamemnon as he gives his many instructions to his orderly; then listen, as he walks through the ranks to his words of encouragement for the brave- The enemy are liars, fracherous outhbreakers, and we shall have them !- or his representes to the dack 'Have you no Shame?' That is the first suggestion in this episode of this theme of Aidos (iv. 242). Hear how he praises Idomenesis and his Cretains none that he honours more in the light, or at other husiness, or at the feast; and name to whom he gives more gracions through. That is a touch of the inspecting officer's authentic character. He passes on, rejoicing, to the Ajaxes. He will not arge them to the fight; no pend of that he only wishes all his men were like them; then it would be a simple matter to take Troy. He leaves than, and moves on to Nester. Nisster, we know, is an old officer, an expert, we are assured, in factics, but loquacions, as old men sometimes are. Agamenmon finds him as we might have known, haranguing his troops on the importance of co-operative movement-and Agemoninon 'rejoiced' but would not help observing that he wished the old man were as sound in wind and limb as he is shout in heart. But not old age, the common lot, has its effect. Nestor riplies that old age has its morits. It is pre-eminent in counsel and speech. The gods do not give men all things at one time. I was young and am old. But even so I will take my place in the cavalry and give instruction and command: for comes has the privilege of old age. The thome is a common variant of the dostrine of human limitations, applied here with a touch of romedy. But its use is relocant to the peet's design. Againstnnon is himself the victim of presumptuous fully. That fact lends point, for me, if mot for the inspecting officer, to Nester's hint about the wisdom of old age. We seem to have heard that Nester, when Agamemous told his famous dream and expounded his fatuous plan for beating his army left the Conneil without expressing his opinion on the latter topic.

However that may be Agamemmon comes at length to the Athenians the Cophallemans, and the ingeneous Odysseus. Odysseus is an harrying but is wisely and deliberately uniting to see what happens, where it will be heat to intervene in the fighting. But the inspecting offices sees his chamse, and takes it. He upbraids Mane thous and Odysseus. They are always first at the feast. Ought they not to be first in battle top. Odysseus answers with a very striking phrase. Let Agamemnon wait until battle is joined, then be will see what 'the father of Telenmehns' is worth. They communiting officer apologisses, being after all a decent man at heart. They so we come to Diomed.

When critics talk of Agameinnon's 'inexplicable' rudenoss to Diomail.

F 12

they forget what the inspecting officer has already experienced. He is getting tired and bored. The interviews with Nester and Odysseus have taken tell of his nerves. It Odysseus brags that the tather of Telemachus' will show his worth Agamemnon can at least tell Diomed he is not the man his father Tydeus was. If Nester sauns young Agamemnon with his talk of the grand old days, the good old methods by which the men of former times sacked cities, he sure Agamemnon will have a word for the youth of Diomed. When an old Staff Major has reminded the inspecting General that the latter is too young to remember the Mutiny the General will look round for a young subaltern when he can still impress by talk about South Africa. Diomed is to know that Agamemnon knew his father. What Tydeus did, is to be related in true Nesterian vein. And the conclusion is that Diomed is not the man his father was

It is all very unlair; but precisely that fact makes it genuine. The Agamemmon of this episode is the man who insulted Achilles. But it is for Diomed's sake that the poet has composed the little comedy. To Agamemnon's insuits Diomed returns no answer. His modesty respects Agamemmen's office (alocover, 102). But Sthonelos has a word to say, and a word that is much to the point : Agamemman, do not lie, when you know quite well what is time. When Agamounon started on his tour, he was declaiming about victory because Zees would not help such liars as the Trojans (235). Well, Zent has a lesson in store for Agamemnon. Sthenelos. and his generation captured. Thebes with a handful of men, because they trusted in the portents, and because Zeus nided them, whoreas Tydeus and his fellows 'parished by their own folly and pride.' It is an admirable retors, and gives a fine opportunity to Diomed to show his Aides by reminding his subordinate of discipline. Silence, he says, be quiet and take your order from me. I have no complaint against Agametonon. His will be the glory if the Achaeans win, and sorrow if they lose. Our husiness is to night ' 4

That is the prelufe to the exploits of the son of Tydeus. I submit that it is relevant to the main theme of the *Histel*. Achilles was entrageously insulted by Agameumon, and tragedly was the result. Diomed is insulted too, though of course the insult is not comparable in importance. But Diomed will make no protest. His business is to fight. If the opisede of Diamed was once an independent poem, it is a miracle that his character should have been so admirably conceived as a foil to that of Achilles.

When we turn to the actual fighting, the intracle, if miracle it be, not art, is repeated. There is a reference, at iv. 512, to the absence of Achilles duly rejected as a late addition by the champions of in independent poem about Diomed. But consider the context. Odysseus by a sudden raily, has shaken the Trojan ranks. And what brought Odysseus into the field?

Agricultural for a facilities be under a facilities be under a facilities of the army. The facility and the T

that last, and harehous the court of Domest's behaviour

A certain Antiphos, a son of Priam, had aimed at Ajax, missed his mark, and hit and killed Leukos, the excellent companion of Odysseus. And Odysseus was very wroth for his commide that was killed (484). Can you help thinking of Achilles and Patroclus And if you think of them, is it not due to the poet's skill, which is preparing you to hear Apollo's shout. Up,

Trojens do not viold ... Achilles, son of Thetre, is not lighting '

But others are fighting well enough, and Diomed best of all, till be is wounded by an arrow from Pandar. Nor does that stop him, Ho invokes Athene, and she comes to him with a pramise worth the hearing, and an astonishing command. The promise is that he shall prove as fine a fighter as his father. We have not forgotten Agamemnon's insult. And the command is this, that Diomed, the modest, who because of Anilos, would not resent his general's injustice, shall stand and fight Aphrodite, should she cross his path. After that, no wonder that short work is made of Pandar. Then, Pandar disposed of Diomed is on the point of killing Acress, when Aphrodite intervenes. She gets her wound and goes. In Olympus the poor lady is consoled by Zeus, her father as well as ours, in language that recalls the lessons always used to comfort and inspire our own poor suffering mortality. Read his whole speech (especially 405-415), and consider whether the post did not mean you to think of Hector and Amiromache, of Thetis and Achilles. And when Zeus bids Aphrodite recognise that the work of war is not a gift that has been given her, and that her own lovely business of marriages is far preferable, do we not hear an echo, humorous, but beautiful, of old Nestor's talk about the various gifts of the gods to men! I must leave the reader to judge. But I must note, in passing the complaint of Aphrodite to Ares at line 361: A mortal man has wounded me, the son of Tydeus, who would fight now against the Father, Zons himself."

Would he! Has his exploit robbed him of his modesty! Almost, I think, it has, not quite. Back he goes to the attack, 'though he knows that Apollo himself is shielding Acneas with his arm.' Dromed respected not that great god, but was bent on killing Acneas.' Thrice he attacked, and thrice Apollo thrust his spear away. But the fourth time, when he realied on like a daimon,' Apollo shouled terribly.

O son of Tydens, come : Be wise, and see How cust the difference of the gods and these."

And the son of Tyders heard and withdrew a little, for he avoided the with of the farshcoter Apollo. Modesty, to that extent, had survived the test of victory. So Apollo puts Acress into safety and himself retires, but eggs on Ares to confront this brilliant mortal, using as a taunt to spur him into energy the very phrase which Aphrodite used before. The son of Tydens would fight new against the Father. Zone himself.

That Diomed in his relation to Agumemnon, is a feel to Achilles, we have already seen. In the adventure just described, he is a feel also to Patrochus. When Patrochus at last has wen his friend's consent, and is about

to enter the field. Achilles bids him drive the onemy from the ships, but not too far. He is not to be the glery of the battle turn his head. He is not to drive the Trojans up to Troy, because a god may intervene. "The far-worker Apollo loves them very much (xvi. 94). With that him to guide you, follow Patriclus through his tragedy. Observe how medest he is at first. It is for the human of Adrillas, not his own, that he will fight (270). After his first successos he still recalls Achilles warning (395). But presently there comes a change. At line 616, Amous, who has aimed at Meriones, and mesed is turiously caunting his opponent: 'Meriones my spear would have Imished you, withough you are a dancer, had I hit you.' To which Meriones replies with another taunt, but couples it with the reminder; ' You, too, Aineas, aire a mortal man. At that point; in words which illuminate his churactor, Patrochia intervenes. He rebultes Meriones for wrangling when he ought to fight. Battles are won by fighting. Words, more words, are mount for the conneil chamber (630). Now watch the sequel, Not many moments pass before Patroclus falls into great felly (uky hidesta maros USS :-

For had he observed the words (\$\frac{2}{m\cdots}\$, of \$2\tau\cdots\$, 630, 386) of the son of Peleus, he would have escaped the evil fate of black death. But over is the mind of Zeus more powerful than that of men, and Zeus it was who stirred his spirit in him.

The gods are calling Patroclus to his death (693), and they give him not only a full measure of glory at the end, but also a spirit of unreasonable during.

Patrociae would have captured Troy has not Apollo intervened. Three he assended the walls and three Apollo thrust him back. But the fourth time, when he rushed on "like a damon, Apollo shouted terribly. And Patroches withdrew 'a long way, because he would avoid the wrath of the faithorder. Then Heator bane and Patroches based him. With a great alone he blanded Hector's charioteer, who fell, like a rambler, to the ground. Patroches mainted him as Asness had taunted Meriones; 'Fig. you are very light of limb, lors easily you turn your somersult. You have sumblers, I see, in Troy. So when the sun was passing from noon towards the hour or rest from toil, Patroches hour upon the Trojans with evil purpose. Three he loups on them, like swift Ares, shouling hearibly, and three nine men he slew. But when for the fourth time he rushed on, like to a damon, then the smil of the came to Patroches: Apollo met him in the midst of the battle, terrible, and he did not see him as he came."

Has Diamed dwarfed the exploits of Patrocha ! Are the differences and analogies between the stories the result of accident or of the claimsy imitation of a redactor, or of art !

Lat us return to Diomed, whom we left at the end of his first adventure. When the second begins, Apullo has departed, Hoctor has joined battle, and

I am milebred to Mr II S. Robertson for distinction. Domed new Apolio : Patroche pointing out to me the importance of this distinct me time.

the Greeks are back on the defensive. By the kind of repetition which Epic loves and which Homero: critics rurely understand, the new opneds beginswith a reminiscence of Againsumen's grand review. There atood the two Ajaxes and Odysseus and Diomed, urging on the Greeks to fight . . . and the sen of Atrees went up and down the ranks, with many an exhortation:—

'Yn Gresks, be men! The charge of basis bear; Your brays associates and convolves revere

albaneren anbahn akebrer obn . . .

Hector is now visibly helped by Area and Diamed, when he sees it true to his character, retires. He lights and makes others fight, but not against a god (d00). Athere intervenes again. Diomed is beginning to feel his wound and needs a strong incentive. She hits on a good thome. Agamainment tolling about Tydeas need not, perhaps, he taken tragically but now Athere, his goddess, who so lately praised his valour, tells him. You are not like your father. Tydeas was a little man, but he sould light. He fought, indeed, and wou, when I myself advised him not to light. In the same breath she orders him to seek out Area, whom he has so piously avoided And he obeys and was again.

Once more, I submit, his medesty is to be subjected to a feet. The gods retire and mortal men are left alone to shift for themselves. After his trimuph over Aphrodite Diemed was tested by Apollo, and found not altogether wanting. Now after a greater triumph, there comes a human that more serious, as we have said, precisely because in it luman. Diomed mosts Glaukov. But before the interview, two incidents occur, both relevant time psychologically important, though the first is generally ignored and the second generally condomined by critical The first is the little episode when Monclays takes a man alive and thinks of sparing him; but Agamannon will not bear or merry. That is meant to propore our minds by contrast for the exqueste humanity of the intercourse between Diemed and Glankes. The second is the withdrawal of Moctor from the field, not for tactical convessiones, but for pions matires. He goes to hid his people pray Athene to divert the rige of Diamed, who at this moment seems more terrible than Kehilles himself. And no sconer has he gone than Diemed meets tilankes. Remember how in the sequel Hector prospers while he remains speciest. Remarabler how he is advised by the wise Polydamas, think of the omen which he disregards because he trusts to Zone, and because the heat of promotes is to fight for the fatherland, then think have the modest Hegier changes, and prides himself on the supposed patronage of Zous, and finally how, in the cress of his destiny, his honour will not let him go. He has to die because, as he remembers, by rejecting the good coansel of Polydamas, he has brought trouble on his people. All that has yet to come. For the present Hector is not ripe for glory and for death. For the present he takes good advice, and the Trojans reap the benefit.

Diomed's interview with Charles is on its lower level, a counterpart and prelude to the final scane of human reconciliation between Priam and Achilles. We have seen the modesty and the achievement of Diomed, when confronted with the gods. Now he mosts an antagonist he does not recognise, whose aspect is so noble that he may well be more than human. That is the situation. Is it an inconsistency admitting of no palliation for Diomed to say he will not light against a god? And is his reference to the story of Lycargus and Dionysus inartistic and irrelevant? Before you dogmatise about it, see if the reference to Thetis in line 136 does not make you think instinctively about Achilles.

To Diomed's question whether he is a man or an immortal Glaukos answers in a famous vitesis;—

Great-hearted son of Tydeus, why seek my lineage? As is the generation of leaves, so is the generation of men. The leaves are scattered to earth by the wind and others are put forth on the living tree when the season of spring returns. So one generation of men grows, and another ceases. Yet, if you wish to ask and know our lineage, it is well known to many. There is a city Ephyra, in the centre of horse-nurturing Argos, where once lived Sisyphus, most crafty and most gainful of men.

So Glankes tells the splendid story of his ancestors, and Diomed, when he hears it, knows that Glankes is by ancestry a guest-friend of his own. He fixes his spear in the ground and 'with gentle words' greats the new friend who is fighting for his enomies:—

I therefore am your dear host in Argos, and you are mine in Lycis, when I shall come there. Let us avoid each other's spears in the press of battle. I have many Trojans and many of their glorious allies to kill, whomever the god deliver to me, and I catch. And you have many Achaeans to kill and strip, whomever you are able. Let us exchange our armour that the rest may know we boast that through our fathers, we are friends.

It is for this moment that we have been prepared by all the harping upon Tydeus. The fact is relevant to the question whether this poem was intended for its place in the tragedy of Achilles, son of Peleus, and Hector, son of Priam.

So they leapt down from their chariets and clasped hands, and pledged their friendship. And Zons the son of Krones rebbed Glaukes of his sense. For he exchanged his armour with the son of Tydens, giving gold for branze, the worth of a hundred exen for the worth of nine.

Here at least the critics, though refuctantly, admit deliberate humour. But how many of them notice the deft reference to Glaukes boast that he is son of the craftiest most gainful man on earth? The truth and subtlety of this touch has a quality which only the authentic Humor has been known to achieve. The secret of his humour, as of his splendour and his tragedy, is

found in his personal, imaginative, view of life. The poet who sent Chryses on his strand to the son of Atreus, is the poet who conducted Prism to the tent of the son of Pelaus. And the poet who made Diamed's exploits calminate in the meeting of the enemies who yet were friends in the same who made Pelaus bid his son trust Here and Athene to give him strength, but 'to hold in check his passion in his breast for loving-kindness is better (iz. 254), the same who made Achilles cry, when Zens had granted his prayer for honour. 'He has granted it: but what pleasure have I from it since my dear friend is dead?' This was the poet who at the end, brought together Prism and the man who killed his sons. One of the most wonderful specifics in Honer, and one of the most appropriate to our present theme is this, spoken by Achilles to Lykson, one of Prism's sons whose life he had spared, but who had fallen again into his hands (xxi 99):—

Poor fool, show me no ransom. Give me no talk. Before Patrochas met his day of destiny, my heart was glad to spare the lives of Trojans. Many I took alive and sold for a price. But now not one shall escape death, not one of all the Trojans whom the god puts in my hand, and above all, not one of Priam's sona. Nay, die, my friend. Why do you weep! Patrochas died, and he was far better than you. Do you not see how tall I am, how beautiful! A noble man is my father, and a goddess my mother. Yet death and violent fate will come for me, be it morning, evening, or mean, when one shall take my life from me in battle with his spear or with an arrow from his bow.

Die, my friend.' Achilles kills his victim, yet even in the crisis of his agony and wrath, he is at one in his mortality and in that strange friendship with his enemy. That is what poetry can do with the commonplace of the Greek notion of Sophrosyne. This was the vision which inspired and dominated the ancient world. As late as the lifth century of our Christian era a bad poet could pay this tribute to Homer, in a description of his status:—

Bald are his temples. Yet upon them rests
The source of Youth, Sophrasyns. The eves
Are sightless. Yet doth coming artistry
Shade them with brows projecting, and the face
Is not a blind man's. In the empty orbs
Is beauty, and I think the artist means
To tell us that the poet's heart is lit
By Wisdom's inextinguishable flame.
The cheeks, a little touched by withering age.
Are sunk a little, yet remain the shrine
Of Beauty's partner, native Modesty.

^{*} Caristodorus of Theber: Paten, Ark. vol. v p. 84.

II.-The Engernor of Telemaches.

The introduction to the first book of the Orleany has been severely criticised. Complaint is made first that the poet does not mention many quite important episodes; then, that he does mention each a trivial matter as the cating of Hyperion's cattle. The truth is, the poet does not want to give a summary of contents, but to concentrate attention on his hero, and incidentally to strike the first significant notes of certain themes which will room throughout the poem.

When, among the circling seasons, the year came, in which the gods destined his return to Ithaca—though there too, among his own people, he was not escaped from labours—then all the gods pitied him except Poseidon. But Poseidon was implacable against the god-like Odyssens until the very moment when he came into his own country.

That is important for the whole artistic structure of the Odyssey. The gods did not worry about the here before, because it was his destiny to wander for a certain term of years. Possislen wanted to inturfere to the last possible moment, but the other gods began to pity Odysseus as soon as the destined year arrived. Even so, however, there were labours awaiting him at home.

Having set that matter right, consider what these two paragraphs contain. First comes the memorable description of the bere, his resourcefulness, his wanderings and sorrows and the knowledge which he gathered as the fruit of his experience. Grouped with their leader, but contrasted are the companions whom he could not ease because of their own folly. The reference to Hyperion's cattle points the contrast. Then, in the second paragraph, we been the situation at the spaning of the action. The heros home and wife are worked into the pattern. Ponelope is set against Calypse, 'who desired him for her husband.' Finally, when the year of release arrived, the gods except Possidon, pixed him, but even among his own people he was not altogether escaped from labours. The whole produce is intended to throw Odyssens into sharp relief; and for that purpose his name, suppressed at the outset, emerges admirably at the end with the spithal distrible to make it splandid.

Nothing, so far, directly, of Telemachus or the suitors though their existence is implied by lines 18-19. But we shall see, when the story begins, that the foundations have been well and truly laid.

Passidon has gone to the Acthiopians, and the other guds and goddesses

are assembled in the palace of Zesa when Zens begins to discourse of Odysseus ! No, of the noble Aegisthus, and how he brought trouble on his own head. An excellent opening of course for Athene who points out that Odyaseus does not deserve his troubles. But that is not the only purpose of lines 28-43. The contrast between Agamemnon and Odyssons, Clytaene postra and Penelope, is not forgotten in the sequel; nor is the comparison between Aggisting and the suitors. For the suitors, Athene's So perish any other whose autions are like his, is aminous. The stress laid here on the warnings heard and disregarded by Aegiathus is actistically the prolude to the many warnings given in the seniel to the suitors, to the comrades of Odyssens and even to the wicked maidservants. All these perished by their own wicked felly. The story of Again moon and Aegisthus plays in the structure of the Odywey a part analogous to that of Crocons and Solomin Herodotia Herodotia indeed was elaborating Homeric methods. The apparently irrelevant reflection of Zeus on the fats of Aggisthus states. in fact, the central destrine of the Ody - in it was life -

Fig.: What a thing is this, that mortals blome the gods! They say that wills come from us, whereas it is partly they themselves who by their own wicked fally, have sorrows more than their allotted portion. It is not part of this religion to ascribe all good and avil to the gods, nor yes

to men. Simply; men make trouble for themselves beyond their portion. So did the companions of Odysseus and the suitors. So did not Odysseus. Aggisthus did and Orester, when he comes of age, takes venguance for his father. It is thus indirectly that the post introduces Telemanhus, and links him with his father, through Or stee.

When Athene seizes har chance also taken up Zoua's orep uppor with har discretion (40). The very portion of Odysseus is evil, though he is a wise, and also lavish in his sacrifices. Zons court onsity admits the force of inite her agaments:-

How should I forget Odyssens, who surplisses other mon in good some, and havigiven more sacrifices than others to the homortals?

Accordingly drvine machinery is set to work: Hornes shall go tlater on with a message to Calypso, and Athene sets; one at once, for Ithaca to put ". parit" into the heart of Telemodius:

Her visit is for Telemachus the beginning of his education and to that process the thomas of our introduction will prove relevant. Telemachus is to agguire hold self-reliance and discretion, as a warthy son of Odyssaus. He enual he hold but modest, sall-confident but compling, like his father. His magazation is to come in part from the thought of his father, in part from his father's presence and example. In the earlier stages Opestea will recur as a type and an example for his emulation. Above all, the descripe stated at the ourset by Zoits implies the wisdom that Telemanhus has to Jearn. Men blame the gods, but man themselves are partly responsible. Telemanhants to loarn that among our troubles, some come from destiny, the gods, or circumstances, and have to be beene bravely; but others we can master, with the help of the gods and also by believing in our own strength and by

daine it.

Athene plays upon these thomes. The vouth's depression is shown by the brevity of his greeting. He believes his father is dead, and he thinks reports to the centrary no longer give him any comfort. Athene knows better. Very skilfully she wins his confidence by showing that she is well informed about Lacrtes, then wakens hope by boldly stating that 'she had been told' Odysseus was in Ithaca. Could there be a better preface to her divination' that the here is not dead? Finally, she moves the simulation of the boy when she tells him that his father will come back even if he is held in iron chains. He will think of a way to get back, for he is a man of many devices.' I say that this is intended to stir emulation. It comes immediately before the question. Are you his son? Has he a son so old? You are wonderfully like him, your head, and the fine eyes.' There is no resisting such flattery, and there is a touch of Odysseus himself in the response. 'My

mother says that I am his son, but I for my part do not know."

She leaves the topic and plays on another emotion. She will make him angry with the suitors. She pretends not to understand the situation. What she asks is the occasion for this junketing! And are not the guests exceeding the limits which 'a man of sense would observe He responds to the directness of the challenge and states his troubles frankly. That is the first step towards a remedy. Rut, like the persons of whom Zens talked in the prelinde he puts all responsibility on the gods. The house may once have been rich and happy, but 'the gods, devising evils, willed otherwise." And the gods are responsible for the soitors too (234, 244). 'O fie' cries Athene, Need indeed you have of Odysseus, to lay hands on the insolent suitors. Is it an accident that her uppeal begins with the same & nonce with which Zeus begun his criticism of complaining mortals! Her whole speech is an appeal for action instead of weak complaining. Her picture of Odysions with his helmet, shield and spears, will be remembered by her hearer; then, with a sudden shift from languor to dramatic energy she breaks off (269). All this lies on the kness of the gods . . . but, as for you, I bid you think of a way to drive the suitors out of the house." Odyssens, we remember, will think of a way to get back, even if he is in chains. And now, all this is on the knew of the gods, we be dealeadar arwya.

Telemacines then, is to distinguish between the things that he cannot help and the things that he can do. He is to be a man and put away children things (206). He is to act instead of repining. Has he not heard

of the fami, that was won by Orestes (298) ?

Athene has accomplished her purpose. She will not stay even for a present though that potent argument is urged. Telemachus is ready for his first ordeal. He thinks he has entertained a god:—

αυτίκα δέ μυηστήρας έπφχετα έσάθεας φώς.

We noticed how the poet introduced the name of Odysseus for the first time with the epithet derideos. It is Athene's talk about Odysseus that has

made Telemachus deserve a similar description. Prochady at this moment the minstrel begins to sing, and his theme is the return of the Achie and that grim return, which Pallas Athene enjoined for them from Troy. No wonder the youth listens with different emotions from those which bring Penalope down from her room. No wender, when Penalope interferes, Telemachus asserts, for the first time in his life, his prerogative as a man. It is a new vision of life which makes him able to perceive that his mother's objection to the song is santimental. A man must face the facts. It is not the singer's fault that the facts of hife are tragic. The reference to Zens, who gives what he planses to mortal men, comes with peculiar aptness, yet with a suggestion almost immorous in view of what we have already heard from Zens himself. Telemashus is trying to behave as a grown man shouldhe uses the arguments of normal Grock morality, and his mother 'stored up in her heart her son's discerning word. Yet there is a touch of immaturity. even of priggislines in his speech. He does not understand his mother. He is not yet of age.

The immediate sequel illustrates both his new spirit and his immediately. Athene told him to appeal to an assembly of his father's peers. She did not tell him to bluet out his intention beforehand. The boldness at which the suitors marvel is not perhaps, very wise; and, indeed, beneath the bravery, there is weakness. His father would never have spoken line 206. And the speeches of Telemachus at the next day's assembly show the same infature of essential bravery with timidity. The appeal to Ithaca fails, but it has started Telemachus himself on a path from which there can be no return. His relations with the suiters can never be the same. For his own education it was essential that he should find the courage to protest. And the appeal to the gods is after all, a matter of some practical importance. It puts Telemuchus right and the suitors wrong. Still Telemachus thinks the assembly has been a failure. He has little enthusiann for his voyage. What is the use of visiting his father's Achaeun friends! He has got no help from the Achievane at home! As usual, Athone has the right answer. If he is really his father's son, he will find the necessary courage and intelligence for success. She maiste we notice on the need for these two elements of character (ii. 270), and she recalls the jest first made by Telemachus himself. when she tells him he will full if he is not his father's son.

For the present, however, it is best for him to forget the suitons and to see the world. Before he goes he meets Antinous, to whom he had spoken so weakly on the day before; and new he shows his quality. As he soutches away his hand, he says (II 314);—

νθε δ΄ δτο δή μόγας είμε και άλλων μέθης εκούων πυσθάνυμας, και δή μαι δέξεται ένδοθε θυμός, περήσω δε ε΄ διμε κακώς έπε κήρας έςλω.

That precisely describes the stage he has reached. His travels are to energian beyond it. They are to teach him much, not only about Odysseus, but also about manners, and the cities and minds of non. And in accordance

with the normal methods of Homeric are one old motifs will still provide the basis of his education. When he arrives at Pylos, he heartates: How shall he find words, inexperienced as he is, and how find counige, to address old Nestor! Atheno's answer is that he must do part of the thinking for himself, and leave part to the gods (iii. 26);—

Τηλίμαχ, άλλα μεν αύτος ένι φρεσί σήσι νηίσεις. άλλα δέ και δαίμων ύποθήσεται...

That is a light allusion to the central theme. The part of Nester in the adhestion of Telemachus is to assure him that the gods will help him if he helps himself. Orester is again to be the inspiration. Nester mentions him aircidly, as a tactful challenge to his guest; and Telemachus feels the challenge. How gladly would be emulate the model, if he only had the strength. But the gods have not given him such happiness. To which Nester has an answer full of encouragement. If Athene only were to care for Telemachus as she used to care for Odysseus! Never was such devotion! Well, Telemachus knows that Athene is with him. That much he has aiready guessed. But he is still weak in faith. He thinks he could not be ut the unitors oven if the gods desired it. Nester's rebuke is famous (iii 231):—

ρεία θεύς γ' έθέλων καὶ τηλόθεν ἄνδρα σαώσας.

The one thing the gods themselves cannot do is to exempt be from the common lot of mortality. The effect of this on Telemachus is characteristic. Let us talk of comething also. Tell me how Agamemnon died. That shows us how he is haunted by the thought of Orestes. And Nester knows it. How skilfully he leads his story to the point when he can say, 'Orestes has slain Aegisthus . . and that very day Menclaus came home. How taetfully he slips away from the implied reminder of Odyssens. And Menclaus brought with him much treasure. So you my dear do not stay a long time wandering away from home, leaving your property behind.' Presently Nester himself recognises that Athene has been with the youth and points the moral. We suspect that the wise old man had some inkling of her presence before.

At Pylos, then, the thome is this: Re brave, relying on the gods and on yourself, as the son of Odyssens. At Sparta it becomes: 'Act, do not sit complaining.' Nothing is done by weeping. As before, a light touch at the outset introduces the theme. When Monetans has explained how little satisfaction be derives from wealth, and the whole company has been reduced to tears, each remembering his own grief. Perastratus delightfully comes to the resone by observing that 'he does not like weeping after supper' (is. 193). The situation is saved. Helen produces her Egyptian drug and troubles are forgotten.

That incident has a sequel. Monclans, who is less didactic than Nestor, does not deliberately use Orestes as a spor to his guest. Nevertheless, lines 542-9 must have a stimulating effect upon Telemachus; and that is why the

poet wrote them. Menclaus has been telling how he rolled on the ground, weeping for his brother's death. But when he had finished weeping, the old man of the sea addressed him thus: Do not keep weeping, but try as quickly as you can to get to your native land. For either you will find Aegisthmanlive, or else Orestes will have anticipated you and killed him. That comes just before the news that Odysseus is alive and in Calypso's island. Menclaus, full of his own story, does not notice the impression he is making. But when he has finished Telemachus says, 'Son of Atrens. I pray you do not keep me here long...'

He actually stayed a month, because the poot wanted rime to bring Odyssens home and tell us of his adventures. These do not here concern us; but we may notice that their later modents are adapted to bring more vivilly before our minds the thought of Penelope. Telemachus and the suitors. The ghost of Odyssens' mother gives him an account of Ithmean affairs as they had been when that lady died. No trouble had as yet occurred. But Agamemnon's ghost suggests the possibility of trouble However axcullent his wife may be, Odyssom will be well advised to keep some secrets from her. And, of course, the mention of Orestes makes us think again of Telemachus. Telemachus is happy (\$\delta\beta\lambda\beta\tag{los}) because his father will return. Then comes Achilles, who is greated as naxipraries, because he was so greatly honoured on earth and is so powerful among the dead. We know his answer. He would rather be a poor man's serf, and alive. than king among the dead, Yes, but there is one thing that still matters even to the dead. 'Come, tell me of that son of mine . . . the purpose and the reinvance of these exchanges should be obvious. So, if I am not mistaken the episode of Hyperion's cattle and the felly of Odlyssens' comrades is a pale anticipation of the folly and the min of the suitors. If it is suggested that the same 'late hand' inserted here the portentions incident of the bellowing roast flesh and in Book XX, the ghastly prelude to the massiere, when the suitors laughed and were eating bloody ment, there is good dramatic reason for the similarity. In the introduction to the Odyssey we heard first of Odyssens, then of his foolish men, then of his wife and home, and last-through Orestos and Aggisthus-we were made to think of his son and of his vengeance on the suitors. So now, as we approach the moment of his homecoming and vengeance, we are reminded of Penelope, then-with a touch of Orostes-of Telemachus, and finally throughout Book XII. the theme of the wisdom of Odyssens and the contrasted folly of his companions, serves as introduction to the contest of Odyssous and the souters. That is the artistic explanation of the arrangement, whatever he the order of composition.

lates and limbs his threads. In the earlier passage to is preparing as for the shift of Interest from Telemachus to Odynomic in the later, for the shift from Odynomicalime to Odynomical Telemacina together.

[&]quot;In should be noted that the amularity between it. 183, Ody on reply to Again, now's superquistion! Is my son alive!", and to SiG, the answer of the ghostly spiritume to Perchasis question is Ody on Rving! is deliberate. This is bow the post-manipu-

Arrived in Ithaca, Odysseus, by his first prayer to the Nymphs (xiii. 360) shows that his son is in his thoughts. His first reflection on hearing of the suitors is that he stands in danger of Agamemnou's fate unless Athene helps him to devise a plan. He is indiguant with the goddess for allowing his Telemachus, whom he conceives as a mere child, to go abroad: and Eumaeus brings the thought of Telemachus still nearer when he tells him of the son who bade fair to be no wit inferior to his father. It is high time, we feel, for Telemachus himself to arrive.

Accordingly, Atheno appears to him in Sparta, as he lies awake at night, still thinking of Odyssens, and suggests that he had better be going home. His mother may have decided to marry in his absence, and—'you know what women are'—she would then look after her husband's interests, not her son's A most unwarrantable reflection on Penelope. But, in the Odyssey, to say that Athene suggests some good or evil thing to a mortal's mind, is simply a periphrasis for the assertion that the mortal has got hold of some idea.' Telemachus, in his night thoughts, couceives the notion that his mother might consult her own convenience and get matried. He does not really know his mother. In Book XVI he tells Eumacus she is hesitating half inclined to marry. It is not true but he has begun to believe what at first was a vague majety. Anyhow, in Book XV he conceives this notion, shows the more energetic side of his character by kicking Peisistratus awake, starts home, and is duly landed by the poet in the house of Eumacus.

Our study of his earlier education may help us to appreciate his interview with the disguised Odysseus. Lake his earlier preceptors, Odysseus asks if this young man—such a man as you —is voluntarily submitting to the suitors; and he adds, in words exactly corresponding to the picture of Odysseus as presented by those preceptors, 'I myself would rather die than arbmit, even if I were overwhelmed by numbers.' Telemachus responds with the old plea that he is helpless, one against so many. But he ends with a sudden shift which reminds us of his first conversation with Athene. The goddess, we remember, said, 'If Odysseus came back. Still, that rests on the knees of the gods. To you my order is to think of a way. . So now Telemanhus dismisses his depression with the words. All this lies on the knees of the gods but do you, Eumaeus, go quickly and tell Penelope. (xvi. 129). He means the swineherd not only to tell his mother of his arrival, but also to apy out the land. That is why Eumaeus says, I understand (137). Telemachus is beginning to act for himself.

At this stage Athens bids the father reveal himself, and takes away his

100, www. 5502

are 175-7. This description is the more starting because the swincherd near a phrase which recalls exquisite memories of Nausicas (v. 183). The charm of this reminiscrems will not be full unders we observe that it does not stand alone. The semiody of the clears, for testance recalls the interview with Avete. Cf. vii. 250, 265, 296, and xiv. 154.

^{*} Thus Membas, with his own poultar coursesy, suggests that Athene put it in Helm's mand to withdraw from the wooden to see and that was demon suggested the simulation and call the history warriors by trans, xiv. 271-380.

55

disguise. Telemachus believes he is a goid. Read his speech and his father's answer. You will feel that there is something familiar, although the charm is new. Well, when Telemachus whispered to Peisistratus that the palace of Menelaus must be like the palace of Olympian Zeus, Menelaus answered, with the same touch of human medesty, that he was only a poor mortal oun fiv. 74 ff., xvl. 200 ff.). These things are not peridental. In a moment you will hear how the father and the son would have wept till night had not Telemachus relieved the tension by the familiar jest. What ship brought you here? I do not think you came on foot. So, in the court of Menelaus, everyone ans weeping when Peisistratus came to the rescue.

Again, Telemachus admits his father's fame for fighting and for sumning. but cannot believe that "two men could heat such strong antagonists as the suitors. His speech recalls the speech of little faith which Nester had to rebuke. And, sure enough, the father's answer is the question, What do you think of Zens and Athene as allies? Odyssens gives his son instructions for the coming struggle, and ends with a fine appeal to his young pride. The women and servants are to be tested. We will try them, to see which of them homours us two, and which sets us at nought, and slights you. raine corra." That fotches from Telemachus a good response. He is trying now to complate his father, but he does not think he can complate him in action. It werms to his immutarity so much easier to show that he too can think ingeniously. So he tells his father he will show his comrage later; for the mannent he will offer an intelligent criticism. He does not think the testing scheme expedient. Of course he puts his bright suggestion in the formula, as ce opaçeada: avwya. We are not told that Odysseus made any amover. Indeed the meident is invanted simply because it marks a stage in the evolution of Telemachus When we have reached the palace, and Eumaens is about to leave the son and father to their own resources. Telomanhus says svii. 601 -

ξμοί τάδε πάντα και άθανάτοισε μελήσει.

That is the combination he has all along been learning to appreciate.

We cannot linger on the details of the 'testing' and the warning of the saitors, artistically parallel, as we have said to the warnings given to Aegisthus, and again to the companions of Odysseus. Just before the testing of Antinous, Telemachus uses phrases which recall, with the appropriate differences, his first efforts in Book I (xvii. 396 ff., i. 189 ff.). Again when Amphaneous, who is so much nearer salvation than Antinous, yet fails to save himself, receives the more impressive warning which his character deserves the poet uses the necession for a noble statement from Odysseus of the central notion of the poem (xviii, 130 ff.). But for the present though the larger schome should not be furgotten, we must concentrate upon Telemaches.

Penelope, reminded by Euryname that Telenachus is of age (xviii 175), rebukes him for allowing the suitors to insult his guests. His answer marks a further stage in his growth. He has to keep his father's secret, and 3.0.5.—vol. xt.

yet he has to admit that his conduct seems unmanly. Compare his words with his answer to Antinous in it. 314. He now claims θυμφ νοέω και οίδα δκαστα. . But he is not he says, a free agent: οὐ δύναμα: . Yet he is stronger new than he was then (406–111). Euryclam is pleased to notice that Telemachus is taking charge of the household (xix, 22), and Penelope notices it too (161). She does him an injustice at 530, but it is of the same order as his own injustice to her. Finally, just before the crisis Odysseus himself, for a moment, almost loses faith. His heart is firm, but anger and unxiety will not allow him to be still (xx, 23). Atheno comforts him, and is now able to say. You have your home, your wife, and a son who is the sort of son one wishes to have (35). Odysseus answers, just like Telemachus, that he is alone against so many enemies: and like Telemachus, he ends, τὰ σε φαάζεσθαι ἄνωγα. It is a fine conception that the here himself at the supreme moment, should need to be reminded of the combination, self-reliance and reliance on the gods, which has formed the chief part of his son's education.

But Odyssens begins the fateful day in a happy mood. He has overheard the maidservant's larky words, and is cheerful. Telemachus too begins well. He rises, godlike, had so does, dresses himself, and asks how the guest has been treated by his mother, whom characteristically, he describes as, in spite of her discretion, somewhat capricious (132 ff.). He is obviously in high spirits, and is bolder than ever before with the suitors. It is backy he says, for Ctesippus that he missed Odysseus with his ox-foot. Had he hit Tolemachus would have killed him on the spot (306). Then caution, and the thought of his father's instructions make him repeat that, after all, he must put up with it: he is one against so many. It is our old theme, but it is combined with a fine new touch of character. When Talemachus first met his father, Odysseus delighted us with a new version of a speech by Munchus. It would rather be killed, said Odysaeus, than put up with it. It is now the turn of Telemachus to tell the sentors, 'kill me, if you will. It would be better to die than always to put up with this '(315 if')

In the episode of the bow, Telemachus is extraordinarily happy (xxi102), and has developed unexpected physical strength (128). When Penelope
intervenes, he asserts his manhood and rebukes her. She is on weak ground
when she offers to interfers in the disposal of the bow. In the absence of
Odyssens that is plainly the business of Tolemachus. So his τόξον δ'
απορέσσε μελήσει rings more true than did the μύθον δ' ἀνδρέσσε μελήσει of
Book I. The earlier and weaker passage is appropriate to the first halting
attempts of the youth to set the man's part: the stranger passage comes at
the moment when Telemachus for the first time is feeling really like a man.

But the poet is too good an artist to allow Telemachus to become simply a copy of his father. His charm has in his imperfect approximation. Odysseus kills his victums in fine fashion. Telemachus also kills his man but the episode is far less glorious (xxii. 91). Still he kills his man and shows his courage. But the couning which he thought he would find so easy, when he talked in the cabin of Eurmans, at the present exciting moment, he is forced to admit has failed him. When the sailors suddenly

get weapons, and Odyssens puts the blame on 'one of the women or Melantheus.' Telemachus is fain to confess, 'It was I, and no one else, made the mistake. I left the door ajar.' When it comes to the pinch, it seems, his father's cunning is not so easily imitable.

A finer example but an example of the same method, occurs after the suitors have been killed. Penslopa comes down and, though she really knowhim, does not speak to her husband. Telemachus as usual, lails to understand: He is all impatience. He maisis that Odysseus is Odysseus. He calls his mother 'stony-hearted' to sit so silent. Her quiet answer in memorable, and is more moving because of the two surfier occasions when she has modestly stored in her heart, her son's words. On this occasion she does nothing of the kind. She is so busy thinking of Odysseus. We have our signs, she says, 'by which we shall know.' And Odysseus smiled and hald his son to let his mother alone (xxiii 105 ff. 112-3). The snub is me affectionate that it is hardly felt, and its effect is lightened by the generosity with which lines 117-122 put Telemachus in the place of an adviser. But Telemachus has feit it. He has learnt modesty, not so much from his father's gentle snub as from the facts of the situation. He realises that his parents understand each other better than he understands them. That is why his answer this time is: Do you look to it yourself, dear father; for they say your wit is the best wit in the world, and no mortal man could vie with your and we will follow you right eagerly obedient, and I promise that for bravery you shall not find my lacking so far as my powers go.

Telemachus is now of age and justifies his epithet versuacios. He has in fact, attained the sense of the 'due measure' which is requisite in a Greek hero. He does not pit his intelligence against the man of many devices, but he does not fall into the opposite mistake of confusing the object of his admiration with a god. He cannot claim to equal the courage and the strength of the great-hearted, much-enduring Odysseus. But he will not lack valour within the limits of his powers?

complaining more the love Mondamurine overed that wealth is not happiness, and how fully seem fortune as contracted with the fates of Agammanous and Achilles. The applicate has a closer connection with the prolature there is alten approach.

J. T. SHEPPARD

The problem of Book XXIV is too complicated for discussion have. But what has been said above has relevance to the discussion of the use of the word 5x8ss in 36 and 192, which has been unpressingly explanged as trephic. Remember how Zers griticas if

THE VENETIANS AND THE VENETIAN QUARTER IN CONSTANTINOPLE TO THE CLOSE OF THE TWELFTH CENTURY.

The foundation and development of the Venetian Quarter in Constantinople, and the history of the early trading relations between Venice and the Roman Empire are intimately connected with and illustrate the movement by which the Ropublic gradually passed from actual, through merely nonmal, vassalage to actual and formal independence. That movement constitutes an essential part of early Venetian history the growth of the Republic as a free State between the Empire of the East and the Empire of the West both weak at sea and in need of a fleet which Venice alone was able to supply, and shows us the Republic skilfully steering har course between Saracons, Normans, Greeks and Germans towards her goal, may apprendicty in the Adriatic and the Levans.

It is not the object of this paper to dwell on the larger mevement, but rather to examine the relations between Venice and the Eastern Empire with special reference to the Venatian Quarter in Constantinople. These relations were governed by the Chrysobulls, or Golden Bulls, whereby the Emperors under gradually extending concessions to the seamen and merchants of their vascal State. Just as Venetian relations with the Western Empire are to be traced in the series of Pacta and Praccepta, so the growth of Venetian trade and the importance of the Venetian ffeet may be studied in the series of Chrysobulis. The earliest of these which has come down to us, though only in a highly corrupt Latin translation, is the Golden Bull of the Emperors Basil and Constantine (a.p. 992). The Doge of Venice was Petrus H. Orseolo, who sent an Embassy* to Constantinople and secured a Chrysobull conferring on the Venetians (bectates of immunicates favorabiles concesses Venetic navigantibus on mercumonia exercentibus in onen Civilate of loco and Imperio subjects. The main

* Murst et, RR. H.S. . . hi p 253, Dambole.

Secret decommends of Present 1 St. I. and T and Bounain give the date as 991, her Ersteinmayr, the chicke con Princip, Gothe, 1965, p. 128, given March 192; this correct, The Boot was grounted as success sureto interious quietz that is 1992.

provisions of this Bull, in which the Doge and his people' are represented

as petitioners for the Imperial favour, were as follows:

(1) No Venetian merchant trading in his own ship, either from Venue or from other provinces; shall pay, at the custom-house of Abydes, more than two soluli on entering and fifteen on clearing; provided always that his cargo is of bona nide Venetian goods, and that he is not carrying the goods of Jews, Amaistam, Lombards and others, shipped at Bari, to the defrauling of the Imperial Customs:

(2) No Venetian master is to be detained longer than three days after

he has given notice that he is ready to sail

(3) Venetians trading in the Empire shall be under the jurisdiction of the Logothete de domo " only as was the ancient custom (secundum quad ab antique fait consuctado'). The magistrates from whose authority the Venetions are exampt are specified

(4) The Venetians are bound to furnish transport should the Emperor. desire to send a force to southern Italy Coperary own suis navigues prokaricatione de nostro hoste, qui forzitan valt nostrum Imperium in

Longobardiam ! dirigere");

A consideration of the document shows, in the first place, that it is a proceeptum not a pactum, it is unilateral, the Emperer alone speaks, the Venetians are not a party; there is no contract; they receive favours and duties are enjoined on them as subjects. And this quality of a precept characterizes all the Bulls down to the Bull of Isaac Angeles (1187), when the form of a pact, or convention is adopted and the Venetians appear as a contracting party. In the second place, though no earlier Bulls have come down to us, and may possibly never have existed; it is clear that the Bull of 1992 is not the earliest statement of Vanctian privileges and dubies. The Bull is granted pro promissione quae antiquitus fecerual on the granted of ancient promises. The obligation to furnish transport is referred to as secundum antiques consuctedines; the sile jurisdiction of the Logothete is described as 'quod ab untiquo fuit consuctudo.' It is impossible to say how ancient were these consuctualines; possibly they never existed in other than verbal form, but we may conjecture that they dated back to the reign of the Emperor Basil I, and to the Dogramp of Ursus Particiacus, roughly speaking about the year \$50,0 when the Emperor sent an embassy to Venuce to seeme the support of the Venetian float.

As regards the first clause establishing the duty of seventeen solids, in all, on every Venetian ship that ontered and left Constantinople, Kretschmayr is of opinion that this was a restitutio in integrum. The Roll states that Venetian merchants testified to the fact that they had been charged

* Thoma Longobardia - Lower Italy.

[&]quot;That he that Mayoffent was observed, by roll Black, T. and T. xii. 38, ii. 3

S. C. Nomeann, Zus medichte der Byzantmisch Vonetlanischen Beziehungen. Ryannincische Zeitschroft, un 1, 1986, p. 368.

[&]quot; Edinard Lawre "Dor allmatingly Chargoing Veneraliza was faktionly on commodiler Almongaguest you Recent. In Branchistica-Zorthall m. S. 1821.

¹ Op 11, pp 129, 129

thirty solidi and upwards instead of the seventeen solidi which was the established charge. The Bull merely reaffirms the original due. difference between the charge of two solidi for ships outering and fifteen for ships clearing the port is to be explained by the nature of the goods they imported goods of low value, such as wood, wool, salted fish and the nature of the goods they exported-silks, furs, aromatics, drugs, leather, sugar, arms, etc., cargoes of high value. The result of this fixed tax on the ship, whatever its size instead of on the value of the cargo led the Venetians to increase the enpacity of their ships and, no doubt, had considerable influence on the steady development of the Venetian fleet. As regards that point the Buil affords proof that the Venetian fleet was already essential to the Empire. The Venetians were bound to supply shipping to transport the Imperial army to Italy should occasion arise. Finally we must notice that in this earliest Chrysoball there is no mention of a Venetian Quarter in Constantinople, we do not hear of a Venetian Quarter in the Imperial City for another ninely years.

During the ninety years that separate the Bull of Basil and Constantine from the Bull of Alexius I. (1082), the State of Venice developed rapidly under the impulse of its great Doge, Petrus II. Orseolo, and the policy be bequeathed to it Striking evidence of growing maritime power is afforded by the appeal which Dalmatia made for protection against the Sclaves. The maritime weakness of the Empire is proved by the fact that the Emperors Basil and Constantine entrusted the Venetians with the task they themselves were powerless to perform. The triumpuls carillam of Dogo Petrus II. Orscolo was borne down the Dalmatian coast and won for the Dogs the title of Dalmarbus Dure, recognised by the Eastern Emperors and also by the Western Emperor Henry II. (1002). The relief of Barr by Venetian aid (1003) led to an Imperial marriage for the Doge's son Johannes, who esponsed the Emperor's niece, Maria Argyropoulos. The advent of the Normans and their menace to the Eastern Empire still further demonstrates the position of Venice as a naval power of the first order. Robert Claiscard threatened to seize Durazzo, commanding the Via Egnatia, the approach to the cast. Alexius I, appealed to Venice for aid. The Republic, in the interests of her growing commerce, could not see with indifference the Normans spanning the Adriatic at its mouth. In 1981 the Venetian fleet of sixty sail arrived at Durazzo, defeated the Normans, and relieved the town, though it was treacherously hunded over to the invaders in February 1082. The Emperor's needs as much as his gratitude explain the ample nature of the concessions undo to the Vanetians by his Chrysoball of 1082. The Golden Bull of Alexins Lie May, 1082 is the basis of all subsequent Bulls down to the Bull of Isane Angelos (1187). It is the first to give a reason

official Latin translation is known; but the Bull is recited in the Bull of Manuel (1148). T. and T., xii. 49

⁶ Globert, Storia: Il Venzine, 1r. Phiton. Vennous, 1879, p. 223.

^{*} M. M. G. M., 14 31

[&]quot;Xeither the Greek uniginal nor thu

for the concessions, namely, Venetian aid against the Normans at Epidamans 'quad Dyrrachium vocamus nos', that aid is represented as being granted spontaneously, 'et maxime quando spontaneo... in his preliis... hi venerint.' It is true that the Emperor styles the Venetians' recti et veri duli' of the Empire, but the virtual independence of Venice is suggested by the words of Anna Commens ('άλλά και τουν Βενετίκουν προσκαλείται δι' ἄνοσχεσέων και δώρων'). The chief provisions of the Alexian Chrysobull are as follows:—

(1) A grant of twenty pounds (of perperi) annually to be distributed among Venetian Churches as the Republic shall think fit.

(2) The Doge and his successors to enjoy the title of Protoschastes with an ample revenue ("cum rogo ction and amplissimo").¹²

(3) The Patriarch of Grado and his successors to enjoy the title of Hypertimon with a revenue of twenty pounds.

(4) The Church of S. Marco in Venice to receive from each Amalfitana trading in Constantinople and the Empire three perperi ("numismata tria") yearly.¹⁵

(5) The concession to the Vanetians of a Quarter in Constantinople, with shops (ergasteria), in the district (embolo) of the Ferry (Peramatis), between the gates called the Jew's Gate (Ebraica) and the gate called the Watch Gate (Vigla), with all occupied and inoccupied lands and comprising the three wharfs or landing stages on the shore of the Golden Horn (maritimus III. scalas) which he within the said Quarter: also the Church of S. Akundini with its bakery (mankinium) and its revenue of twenty Bezants.

(6) The concession to the Venetians of the Church of S Andrea, in Duraggo, with its revenue from the fisc.

(7) The Venetians acquire the right to trafe, free of any charge whatever, in all parts of the Roman Empire; then follows a list of specified cities ending with 'et simpliciter va outres partes sub potestate nostre par manusciadinis,' a list of specified dues from which Venetians shall be exempt and a list of Government officials from whose Jurisdiction Venetians shall be tree.

(8) The Venetians are under obligation to defend the Empire (et toto tenimo pugnare pro Romanorum Statu),

(9) The sanction for infringement of Venetian privileges is a fine of ten pounds of gold and four times the value of the goods unsupprepriated; the penalty to be exacted by the Logothete de dono.

On the general effect of the Alexian Chrysoball we note first the vast extent and importance of the trading rights conferred upon the Venetians. Anna Commene was fully justified when she laid stress on these concessions,

= 8.8.11. B., up. cit. Lib. at 2. "werd vis lookly- blace"

N.S. H.R. Bonn, 1839, Annie Communio, Africanel, Lili, ir. S. Lili, vi. 5. Anni resi fluoritant de parameter delegare sal ris finalese malhardarious schembar irrorgentees.

¹⁸ S.S.H.B., op., cit. Lit. vi. 5. "ri pierm ir drietre rai dinyyeneren demerikan Milyan indentia rein de Milyan de Karturrumrine dipyarripa autóxetta estatur.

το δε δη μείζου, την εμπυρίαν αυτών άζημιον εποίησεν έν πάσαις ταις ύπο την έξουσίαν Ρωμαίων χωραις. These privileges gave Venico an overwhelming superiority among the Italians trading in Constantinople; competition with her became futile and thus laid the roots of that bitter tealousy which Genoa, and probably Pisa and Amalfi, subsequently displayed. The humiliation of Amalfi was complete as her subjects locame, by this instrument tributaries of S. Marca. As regards jurisdiction the Alexan Chrysoball confirms the exemptions conferred by the Ball of Basil and Constanting; though we can hardly go so far as to hold with Giroree 15 that the jurisdiction of the Logothete disappears merely because he is not mentioned. It is probable, however that with the creation of a Venetian Quarter the jurisdiction over Venetian traders in Constantinople tended to pass into the hands of the Doge and his representatives in the Imperial City. Finally, for the first time we have notice of a Venetian Quarter in Constantinople and a brief definition of its boundaries. It will be more convenient to defer the topographical examination of the Quarter till we come to the Chrysobull of Manuel (1148), in which the Alexian Chrysobull is recited, because the definition of the Quarter is more complete in the later Bull and because various documents, dating between 1082 and 1143, throw light on the topography of the Quarter and, in a measure, on the way. it was administered. But, in passing, it seems desirable to point out that Officer's contention is that the Quarter was granted to the Patriarch of Grado and the clergy of Venice, not to the Dogs and the State of Venice, is hardly temable. In the passage which seems to have misled the historian, 'and hoa' can hardly, own in the barbarous Latin of these documents, betaken to mean ad sanctissimam ecclesiam sancti apiadeli el Evangeliste Marci': aia, wherever it occurs in the document, refers to the Venetians, and conclusive against Officer's view is the fact that in 1000 to we find the Doge making concessions of various proporties in Constantinople which he declares came into the possession of the Republic in virtue of the Alexan-Chrysidall. The Venetians, having thus acquired a predominant position among the traders in the Empire, proceeded to build up a similar position in the Latin Kingdom of Jerusalem, based upon privileges granted by Beemand 1 of Antioch (1098) Baidwin of Jerusalem (1104), Tancred of Antioch (1112). This policy was viewed with disfavour at Constantinople, always jealous of the Lann intension, and produced the first serious rift between the Venetians and the Empire. The second cause of disagreement. the relations between Vonice and the Normans, had not yet matured. Venice was still pursuing her old policy of heatility to the Normans owing to the dread of seeing herself shint into the Adriatic by the Norman power at its mouth. She had not yet begun to negotiate with the Normans for treating rights in Apulia and when in 1108 Alexius L sought Venetian aid

¹² SeS. H. Re. op. col. Life, vi. fa.

[&]quot; Giroret, op, est. p. 303.

⁴ Olivers op sie pp. 300, 300.

is T. will B. The Tie To.

IF T. and T., all, mor exvil., arx., west.

against a threatened attack ("requirit at de oportuno subsidio sibi placeat (the Doge) subvenive') 10 the Doge agreed. The spisods is important; it is related by Andreas Dandalo only and seems to indicate the complete independence of Venice, but it is necessary to be on guard against the Veneta varitas' of the Ducal chronicler. The result of Venetian support was that Alexius was able to conclude a favourable peace with the Normans. The Venetian attitude in Palestine, the steady progress of the Republic towards commercial supremacy in the Levant, the establishment of Thesphilus Zeno as first Venetian Consul in Syria (1117). confirmed the Emperor, Johannes Commenc, in his dislike and suspicion of Venice; and when the Doge, Domenicus Michiel, sent an Embassy (1119) to beg for the renewal of the Alexim Chrysoball, is was refused. [Ille (the Emperor) omissis paternis cestigiis id facere remuit.)33 Meanwhile the Venetians acquired the third part of Tyre and dominant commercial rights therein." as well as in other cities of the Kingdom of Jerusalem. In 1122 the Doge tank the sea with a powerful fleet, besieged Curfu, which held for the Emperor, but was called away to help the Christians of Palestine against the Saracens. He was victorious, and on leaving Syria he attacked Rhodes. Here then we find Venice in open rupture with the Eastern Empire, the vassal attacking his superior. The upshot proved the weakings of the Emperor: Without a fleet and constantly menaced by the Norman power he could not do without Venetian help and was driven to ranew and enlarge the Alexian Chrysobull.

The Johannine Chrysobull (August 1126), or rather renewal of the Alexian Bull of 1086, begins by condoning recent Venetian offences recalling their ancient loyalty to the Emperor Alexius I, and ignoring 'que paulo oute ab els mala gesta sunt': it goes on to confer the present Chrysobull on the condition that the Venetians promise 'tota anciene pro Remarka proposese.' The Chrysobull reaffirms the Chrysobull of Alexius in all its details 'signt exposition cut' a principio quando els donatum est.' The honours and emoluments of Dogo and Patriarch are confirmed, also the donatum of the Quarter and of the trading rights. The people of Anadh still continue to be tributaries of S. Marco. It seems that both Venetian population and business had been growing in Constantinople, as was natural under the festering influence of the Alexian concessions, for in 1.148 we find them petitioning the Emperor Manuel that their Quarter should be enlarged. The result was the Chrysobull of 1148, which is chiefly concerned with the definition of the Venetian Quarter.

The Chrysoball opens with a handsome recognition of Venetian services against 'earn, qui patentatem habet Sicilie,' that is Roger, who finding parts of the Empire unprotected ('thoustodilate fore pastes Imperii

¹⁰ MR. II. SS., Engl. 201

⁻ Land T., all Tr

¹¹ M.E. J.L. SS. 211. 200.

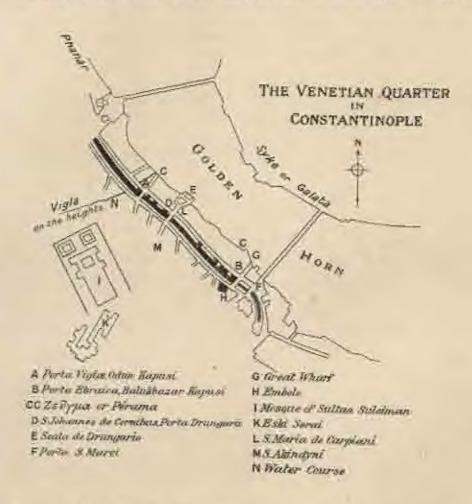
T ind To an mar al.

[&]quot; T om T, au no sh

it T. and T., vil. 00.

[&]quot; T. and T. alt. 100.

mostri' attacked them. The Venetians, invited to oppose him ('counti in congression contra cum'), and considering this attack as their own personal injury ('hoe tanquam propriam dampnum'), placed themselves at the disposal of the Empire. In return for these services and as the Venetians are now petitioning for an enlargement of their Quarter, declaring that they are cramped as they now stand ('adangeri silii et mausiones et embolum



et scalas, ve quibas nouses corum in parte stant, certificantes, se non modicum augustiari, et quod non passent him solis, que apsis data sant a bente memorie Imperatore et aux Imperii nostri in hac civitatum Imperatries contenti esse) the present Chrysoball is granted them and in it is defined the new enlarged Quarter, including the original concession in the Alexian Bull, from the Porta Ebraica to Vigla.

The Chrysoball of the Emperor Manuel gives us no very clear idea of the Venetran Quarter in Constantinople. The whole topographical question

is extremely obscure, and students from Glroror to Mordinann have admitted the difficulty and the conjectural nature of any attempt to reconsurest the boundaries of the Quarter. However, availing ourselves of other documents, let us see what light can be thrown on the subject. It is hopeless to expect to identify all the places monasteries and churches. mentioned in the Chrysobull; yet with the help of the accompanying plan -which I admit is itself highly connectural-we may, perhaps, recover some general idea of the locality. But first it is well to explain one or two technical terms which occur in the Chrysobulls and other decriments. The Alexian Chrysobull (1086), in which we find the first mention of a Venetian Quarter, states that it was situated 'in Embolo Persmatia.' An Embolum, it seems, was a place where merchants stored and sold their goods and generally transacted business. Each of the Italian maritime States Venice, Cionoa Pisa, 27 and Amalfi, had an Kimbolium in Constantinople. It was a building with an open loggia running round it and was of the nature of an Exchange house a rather than of a bazaar. But the word Embolum soon acquired a secondary and wider meaning and came to be applied to the whole quarter; 'in Embolo Peramatis' means in the quarter or district of the Ferry. We find the word Embolani signifying the Pisans dwelling in the Pisan Quarter. Ergusteria com sobreits suis means shops with a store behind them on the ground floor, and upstairs the solario, large rooms, usually serving as dormitories. Scola means a wharf and landing stage. Trinkingum 20 menus a three-storied house.

Broadly speaking the Venetian Quarter occupied an oblong strip of land running north-west and south-east along the southern shore of the Goldon Horn, between the slopes of the third hill (now growned by the Mosque of Suleiman and the Seroskeriat) and the sea. It covered more than half the distance between the present outer and inner bridges, and lay to the east of the Quarter known as the Phanux. To the East of the Venetian Quarter came first the Amalitani, then the Pisans, and finally the Genoese, all three eastward of the outer bridge. The length of the Venetian Quarter is given as 385 pages, or about a third of a mile; its width, between the slope of the hill and the shore, has not been determined, as the line of its southern boundary is uncertain, but roughly speaking it may be calculated at 100 pages or 170 yands. Down the middle of this oblong strip can the marritime walls of the city, leaving, according to Dr. Paspati, about 80 yards

De Simoni, 'Sut Quatieri dei Genovent a Constantingedi nat sund! XII, 'in the Gierauls Lipatice, and 1874. The Genoves stabulum at Coparis was communed by the Emperor Manuel in 1170.

W Mikhwah and Müller, drin w Diplomata Granca vs. General Indusyne allustrautus, vol. m. Renewal of conventions to General and Physics, s. n. 1188, 1191.

W Reaseso. Day del languaggen Italeens

Storico of Amministrativo, gives Embolo as equivalent to Fondays or Exchange house.

S.S. H. S., Du Conge, Notes to the Alternat, vol. in p 536

^{*} Comprehending trellageinm ultima Homicillian Mili, T. and T., 24: 10

²⁴ The George quarter was moved to Galick later on.

Papati, as quarted by Da Simoni, ope (it. p. 144, n. l.)

between the walls and the sea, and perhaps as much on the inner side, between the walls and the rise of the hill.

In attempting to identify the boundaries of the Quarter, as given in the documents let us begin with Vigla; 'incipit ah ipsa Vigla, says the Chrysobull of 1148. The site of Vigla (Beylas), or the tractus Viglantiae, the headquarters of the City-guard Vigili's seu Excubity and their Chief Constable, the Drungarius Viglue, has been placed by Dr. Paspati, Prof. A. van Millingen and Dr. Monitmann on the heights of the third hill, at the western end of the Mosque of Suleiman. In the city wall, below the beights of Vigla, we know that there was a Porta Viglas which we have good reason for identifying with the existing Odus Kapussi or Woodmerchants' Gate.30 The tract along the shore, between Odun Kapussi and Bathk-bazar Kapussi, or Fish-market Gate, was known in the twelfth century as the Zebyna the Perama or Ferry. We know that the Zebyna was the quarter of the wood-merchants for during the Nika revolt under Justiman, the cry was raised, 'Who killed the wood-merchant at the Forry c' We shall have occasion to note that the modern Turkish names are frequently merely translations of the earlier Gracco-Roman names, and we are therefore justified in identifying the Odun Kapussi, the Woodmerchants' Gate, with the Porta Vigine, which was at the western end of the wood-merchants quarter on the Zebyna: Now when the Chrysoball of 1148 says the Venetian Quarter incipil ab ipsa Vigla, and when Anna Combene says that her father, Alexius I, gave to the Venetians ' 7a. awo vije wahasis Espaining caular peopl the suborpines Bighas, do they mean Vigia on the heights or the Porta Viglae! If I understand Kretschmaye's map a correctly he holds that the Venetian Quarter ran from Vigla on the height in a triangle whose sides ended at the Porta Viglae to the west and the Porta Ebraica to the cast. The phrase ab iose Vigla may give colour to the contention that the Venetian Quarter began at Vigla on the height, but three considerations seem to make it clear that the Porta Viglas was the starting-point When Anna Compene says ' nexpi 775 scalorations Brylag she means not to the place called Vigla but 'mexpl [The swades] The radorumne Bighas, from the old wharf Ebraica to the whiter called Vigla; the wharf called Vigla could not well be on the height. but it probably was on the shore near the Porta Vigins in the city walls. Again, the boundary line of the Quarter is described as returning to Vigia, whence it set out leaving on the left the watercourse that descends from Vigla on the heights; the watercourse would be on the right if the line were ceturning to Vigla on the height. Finally the line is described as ascending a little to the south from Vigla Cascendit paululum versus meridiem ab per Vigla". It could not ascend anywhere from Vigla on the heights, but it could, and probably ilid ascend from the Porta Vigiae towards Vigia on

[&]quot; Du Chage, Notes to the Alexand, of mgo.

[&]quot; Mordinani, Esquiser l'apaprophique de Constantiagese Lille: Desclée, de Brouwer

et Che. 1892 p. 45, 1 75.

Kraissmanner on Map of Constants weple

the heights. It seems then that the ipro Vigla of the Chrysobull is the Porta Viglae.

Having tentatively fixed the Porta Viglac as the mirth-wistern extremity of the Venetian Quarter let us follow the district south east varie first along the outer, the northern or sea side of the maritime wall. That son-front was known as the Zabyna or Perama, the farry which crossed the Golden Horn at its narrowest point to Sykae, the modern Galata. Its whole length was traversed by a street with houses on each side. This street was called the Drungary Street (raim quas rocatur de Longario, extra magam'),50 To the south, or right, coming from Porta Viglao, the houses faced the street and ran back to the city-wall; to the north or left, coming from Porta Viglan, they faced the street and ran back down to the shore of the Golden Horn. 57 f. Iste sunt cose extra juxta murum civitatis. Iste case sunt de ripa secus mare.') About 100 vards from Porta Viglas we come to another gate in the City-wall, which we identify as the Drungary Gate, the Forta Drungarii. This is the gate 'quoe est justa parvum templain Precursoris, the Church of S. Johannes de Cornibus recorded in the torrier of the Patriarch of Grado, the modern Sindan Kapussi, or Prison Gute, where down to the year 1891, there were the remains of a small Byzantine church.40 This gate gave across from the inner streets of the city, by means of a moss-road leading north out of the Drungary Street down to the wharf known as the Souls de Dronqueio, 41 probably the first of the three wharfs mentioned in the Chrysobulls of Alexius und of Isaac et mardimas III. scalas, que in predicto spatio (i.e. between Ebraica and Vigla | terminantur 32 Coming further east along the street of the Desingary the line of houses and of the city-wall was unbroken to the south for about the length of 380 yards. To the north, however, a read may have led down to the second of the three wharfs above referred to. At the end of these 380 yards we come to the Porta Ebraica which Anna Commenc and the Chrysobull of Alexins I, give as the eastern extramity or starting-point of the Quarter. The Porta Ebraica is probably identical with the modern Bollok-bazar Kapussi, or Gate of the Fish-market. But here we are met by a difficulty. At this point we find four names of gates—the Porm Ebraica, the Porta Peramutis, the Porta S. Marci," and the Porta Piscaria.44 The deed of 1229, planing the Monastery of S. Giorgio Maggiore at Venice m possession of certain property in Constantinople, gives the Porta S. Marci

T. and T., viil. im celevril. p. 284, a.i. 1221.

See the corrier of the Patrice on a Gradu. To and The suit was above, a see 1200. I give the dates of the documents because series are series assumed to the Chrysodull of these theory and the quarter.

T. and T., viii. 111, Chryschell of 1148.
 T. and T., viii. no. chriv., a.n. 120d.
 Miorettesann, on viii. p. 46, § 78.

[&]quot; Marchmann, lot ell.

⁹ T. and T., will no obravilie, a n. 1207.

W.T. and T., all 32, a.n. 1982, p. 183, a.n. 1187, but then scaled year second large state.

T and T, zur no edzart, a.u. 1220, for and applie various substant firms of the Quarter) or ports distrate que dicitire S. March, per quantilisment via publica.

^{**} Bissod-bissorte, plac of Constanticople in Labor insularrom archipalaga.

as distinct from the Porta Ebraica, and places it to the east of that gate, that is to say, beyond and eastward of the extreme eastern limit of the Quarter as given by Anna Commence and Alexios I. It will be noticed that the mane of the Porta S. Marci occurs for the first time in a document of 1229, that is, twenty-five years after the sack of Constantinople by the Fourth Crusade and the development of Venetian influence in the Imperial City, and we are driven to conjecture that an addition had been made to the Venetian Quarter, namely, the piece of land lying between the Porta S. Marci and the Porta Ebraica. The Porta S. Marci may therefore correspond to the modern gate at the Jeni Jami.

As regards Porta Ebraica, Porta Perumanis and Porta Piscaria, are these three separate gates, or two, or one ! Mordtmann conjectures that in the thirteenth century the Porta Ebraica and the Porta Perumatis were identical, and there is nothing in the documents to invalidate the supposition, we never find the two names in the same document as representing different gates. On the other hand the Porta Piscaria of Buondelmonteis merely the Latin form of Baluk-bazar Kapussa, the Fish-market Gate; which we take to be identical with the Porta Ebralca - known after the Mohamadan conquest as Tchifout Kapussi (Jows' Gate) - and thus we arrive at the conclusion that all three names indicate in the twelfth century, one gate only-the Porta Ebraica, through which run the resul from the interner of the city to the last of the three wharfs - the great which was reserved by the Doge in his donation to Kariman, Abbot of S. George i schale major, quan all nestrum usum refinitionus " The Porta Ebraics probably took its name from a Jewish barying ground, which is styled the Indeed law precurrit ad partum Perame usque ad Indeening This concludes the survey of the district outside the walls, from Porta Vigine to Porta Ebrauga

Passing through the Porta Ebraica we enter the city and the inner district of the Venetian Quarter. This district was bounded at its castern end, where we now are, by the public road running from the Porta Ebraica to the wall of the Sevastocrator ('uno suo capite firmat recto tramite in via que discurrit a perta Ebrayky asque od marum qui fust Sevastocratoris'). What the wall of the Sevastocrator was we do not know, but the document of 1206 gives it as the southern boundary of the Venetian Quarter inside the walls. ('Infer murane civitatis owness proprietates terricular et casarum quod firmat uno suo latere per omnio in muro qui fuit Sevastocratoris, also autem suo latere firmat in muro civitatis.') *

¹⁶ T. and T., alli no. celevity, p. 271. In the reign of Pietro Ziani (1205-1229) and stater the Podestrate of Theophilas Zono.

T and T, xii 67, a.e. 1000, also girl, no elegant A.p. 1200, an male majori in rigor de prime (i.e. Ferance)

[&]quot; T. and T. Ell 56, Art 1000.

T and T., and no civity, a.p. 1206. Deed at concention to the Patriarch of Grade.

The area ended was probably conxistence with the Vanatian quarter within the walls ('concultume character's africa market societies' comes proprietate terraries of constrain . suprescripti restrictionaments Freshor . . .'I and the boundaries defined by the deed are the boundaries of the Quarter at its mattern and within the walls.

[&]quot; T. and T. loc. cu.

This is quite slear. The property under decession, that is the property conceded by the Doge Pietro Ziani, to the Patriarch of Grado, was bounded on the north by the city-wall and on the south by the wall of the Sevasto-Mordtmann at recognises in the name of the modern Quarter of Takhti Kale, above the fortress of the wall, a reminiscence of the wall of the Sevastocrator. This wall, giving us the southern boundary of the Quarter ran along the slope of the hill, passing the inner side of the gate of S. Johannes do Cornibus, and ended at the courtyard of S. Maria Carpiani. From there the boundary line returned to Porta Vigite by the watercourse which flowed down from Vigia on the houghts. The Quarter was enlarged both eastward (as we have seen) and westward towards Blachernae after the Latin siege and capture in 1204 ("ubi Marinus Geno. qui in Constantinopoli Polestus erat pro nobis fecil fieri murum

acount "122

This district inside the walls also had a street running its whole length. with rows of houses on each side, backed by the city-wall to the north and by the wall of the Sevastocrator to the south the city-wall was broken by a road which led through the Gate of S. Johannes de Corinbus, or Porta Drungarii, down to the Golden Horn, and the wall of Sevastocrator was broken by several alleys, which we cannot now identify, though one was called Allero Opecia quellem de terra varua posita in ruga Allero" We van conjecturally establish the position of some of the buildings belonging to the Venetian Quarter. The Embolo, in all probability, stood just within the Porta Ebraica, or Porta Peranatis, on the road leading down to the great Near the gate and close to the Embolo was the Monastery of S George; its tower was on the city-wall I've comprehence angula ture's Monasteria S. Georgia, qui angulus respicit versus orientem 12 Near the Emboio, too, but on the other side of the street that can the length of the Quarter Cante Sanctum Marcum altra Fiam)," there were to have been a Church of S. Marco, which possibly accounts for the Porta S. Marci. (Petra Monacha priori S. Marca nostri Emboli de Constantinopoli) 35 Four handred and two feet and a half from the tower of S. George stood the Charch of S. Maria de Carpinni d'a comprehenso angulo turris monasterii 8 Georgii unque ad Increm S. Marie de Carpiani . . . pedes quadringentos duos et dimidium 66 S. Mirm de Carpian is identified by Du Cange " with the Church of the Periblepta," or Mother of God, S. Mary the Admired. About the centre of the Quarter and a little way to the south of the main road, up the slope of the hill, came the Church of S. Akindyni it inter quas proprietates [i.e. the area conceded to the Patriarch of Grado]

^{16.} Op. cir. p. 46, 1 78.

at T. and T., alth may claxist, a.t. 1207. A connection of water-rights by the Dogs.

as T aml T, will us whate, are 1000

in T, and T., elli no elsiv., a.D. 1200 as T and T., and un office, t.m 1996

Torrow of the Patriar h of Grade.

¹⁴ T. and T. alil 193, art 1100

[&]quot; T and T. xiii. po. cixiv., a.p. 1906.

²² Du Congo, Constitut, Christiana, Vanitiis, 1729, Lik it, p. 57, quoted by Mordtmann.

^{**} T. aml T., xii 112, s.n. 1142; 'n sinstres erro de meditual manutale di Perialenti

"sita est esclesia & Alkindyni")," the chief church of the Quarter, " probably on the site of the existing Mosque of Rustem Pasha. This church is mentioned in the earliest concession of a Quarter to the Venetians, the Chrysoball of Alexins L. where the church is said to have had a bakery attached to its side (Mankipium, in pistrinum, quad est in ipsius scelesias labors ";" In 1107 the Doge, Ordelato Falier, made over to the Parriagch of Grade, in lieu of his annual revenue of 160 pounds, and the sum of another 100 pounds due to the See, the Church of S. Akindeni with all its territory, treasures, vestments, books, havings and belongings within and without the walls, with all its shops (evpusieries), its luckery and oven, its weights and measures for wine and oil, along with all our shops in the cary," The Doge further decreed that no other weights and measures should be legal for Venetians in Constantinople, "nisi statera et rubu et pondera et metra providetas Ecclesiae. The effect of this provision is made clear in the territor of the Patriarch of Grado where a certain Pascalis Bollanus pays annually seventy-two perperi for the me of the weights and measures, by far the highest ront upon the roll. The Church of S. Johannes de Cornibus we have already placed near the gate of the same name, also known as the Ports Drungarii. It would seem, too, that there was a second and smaller Embola | tenst ad modienn of alied embolum | close to the hospital of S. Marcianus, but where it or S. Nicolaus or the Parakymomeni were it is useless now to conjecture. We know that there was a wharf (scala) of S. Marcianus and it is just possible that the church may have stood on the road that led down to this wharf through the Purta Drungarn, or S dohames de Cornibus

It is not clear how the Venetian colony in Constant nople was governed in these early times. We know from the Chrysobulle that the Logothetealone of Imperial officials had jurisdiction over Venetian merchants; Girorer," however, bolds that as early as 992 Venetian judges were appearied to act as assessors to the Logothete. He bases his argument on a clause in the Chrysobull of 992 (insuper et hoe juhemus at per solum logisheticm ... isto minigio de inlie Venetica et ipri Venetici seculentur, et pensentur et judicentur ver and holds that this creation of independent Venetian courts is the immunitas to which Dandolo is referring." It is doubtful, however, whether the passage means more than that Venetian shipping and the Youetians themselves shall be under the jurisdiction of the Logothete alone. However that may be it is certain that after the capture of Constantinople in 1204 the Venetian colony was placed under the government of a Podesia with a council and courts of his own. The document confirming the field created after the partition of the empire contains this clause, "ligitur nos

[&]quot; T and T., alii. us alsty, a. t. 1200.

a Danunger op, sie Lib. be, p. SL +S. A sinity & Section Ventures proprie Jail.

[&]quot; T. and T., ill 52 a. t. 1082

⁻ To and To Mhone.

[&]quot; T. and I., and as

ov T. and T., and search, Aco. 1200

E ep and To 25, 111, A. D. 1148.

Sa T. and T., with 1/2, and 1/48.

to Ope till, pr. 2011.

⁼ T and T. sii 38.

[#] BR.11 88 . VII. 1849

Marinus Geno. Dei gratia Venetorum Potestus in Romania ejustemque Imperii quarte partis et dimidie dominator una cum judicibus et sapientibus consilii.'

As to the way in which the Quarter was held, there can be no doubt that the concessions contained in the Chrysoballs were made directly to the Doge and community of Venice. But we find that the Doge almost immediately directs himself of part, if not of all, of the newly-acquired area in favour of the church. For example, in 1090, only eight years after the Alexian Chrysoball, the Doge, Vitale Palier, grants to perpetuity to the Monastery of S. Giorgio Maggiore in Venice and to its abbot. Kariman province to automarum nontrarum, the land and houses inside the city of Constantinople which his between Vigla and the Porta Perametis (excluding the area already ceded to the Monastery of S. Nicolo) as invested in him by the Emperior Alexim. The phrase in perpetuam, however, must be understood with reservations, for the State, on occasion, resumed areas that it had alienated ("loca quedam", furnit ablata sidem (S. Giorgio Maggiore) et redacta in nostro comunit pro ejusiom comunitatis utilitate".

Again, in 1107, the Doge Ordelafo Falier concedes the Church of S. Akmelyni with all its rights and privileges to the Patriarch of Grado, thus compounding for his yearly salary and for a sum due from the State to the See of Grado Yet again, after the capture of Constantinople (1204). Marinus Geno, the Podesta on the orders of the Doge, Petrus Zinni concedes to the Patriarch of Grado a wide area in Constantinonle, in perpetitum, with all its wharfs and wharf dues. This area comprised houses and unoccupied lands both inside and outside the wall and the Church of S. Akindyni. It is doubtful whether the concession to the Patriarch covered the whole Wonetian Quarter in Constantinople; it certainly covered the whole of the eastern part; but for several reasons we hold that it was not coextensive with the Quarter. In the first place we find names of householders with descriptions of their holdings, which do not occur in the terrier of the Patrurch. That terrier gives a list of properties, both inside and outside the walls, their tenants, and the rent in perperi. The list contains the names of eighty tenunts, among them the State of Venics itself, 'Commune Venet,' perhaps for the land occupied by the Embolo. The reuts vary from one to twenty perperi, which the State of Venice paid for its holding, and to twenty-one paid by Homyentura Beccuro. Pascalis Ballanus, as we have already men. paid as much as seventy-two perperi for the right to weigh and measure which belonged exclusively to the Church of S. Akindyni. We have several leases granted by the Patriatch which throw an interesting light on the

⁵⁰ Mr. Level Mr., wil :559.

T T, and T, Mit of.

[&]quot; T, and I., sille me celesion d. in home

[&]quot; T. and T.; xil. 07.

d Sim allows.

be P. and T. asii no obster, a.p. man

JULE - VOL XL

[&]quot;I and T., aid no eleval, a.m. 1207, where the property of a certain: Haurieus Alleman, is given as one of the binumfacusary the anhiert in quantilin. His manual does not appear in the terries of the previous year, 1200.

size of the building sites and the customs of the Quarter. For example?" in October, 1206, Bonedictus de Salmuza rents from Johannes Bon, nephew and agent for Benedictus Faller, Patriarch of Grado, a piece of unoccupied land outside the city-wall, near the great wharf on the shere at Perama, thirty fact long and twelve wide, bounded on two sides by unoccupied sites belonging to the Patziarch, on a third by the public road, and on the fourth by the property of Johannes Bon, from the first of September for twenty-nine vests. The rent is lifteen golden perperi amountly due on the first of March and the first of September. The tenunt to have the right to build and to sub-let; but at the expiry of the lease the land with the buildings on it return to the Patriarch, except in case of fire or violence of the Sovereign ("excepto periodo incendii el violentia senioria"). Again in March. 1207, Alexius and Theodorus, of Durazzo, rent from the Patriacch of Grado. for twenty-nine years, at three golden perpert a year, due each first of April, excepto incendio el violentia alicujus senioris, that plot of land bounded by the public road, the wall of S. Trene, the property of Henricus Allemanus and the archivolte of S. Irene; at the expiry of the lease the buildings become the property of the Patriarch, but in case fire or the violence of Princes shall have destroyed the buildings, the tease shall be prolonged to such a term as shall give the tenant a full twenty-nine years with the buildings intact on the land. Again " in August, 1207, Petrus Longo rents from the Patriarch of Grado, for twenty-nine years at 112 perperi, due in February and August; a piece of land outside the walls at the Drungary wharf 137 ft by 10 ft, bounded by the public read, the city-wall, S. Irene, and the property of the Patriarch. By the year 1255 it would seem that the value of hand lind fallen, for we find so that a plot of land, outside the walls, close to the Great Wharf, messuring 32 ft. by 15 ft.; only fetches six perperi a year; und a like sum is all that is received for a similar plot leased in June of that year.

It is difficult to estimate the size of the Venetian population in Constantinople, but we know that when Manuel birol the Venetians back after the Doge had withdrawn his countrymen in 1168 or 1170, they returned to the number of about twenty thousand, and upwards of ten thousand were arrested in the city alone in 1172. They

The annual cont. thurstore, of this proce of property 12 ft. by 30 ft. was £22 for all process British money. Dield, Made Bysanians, Paris, 1905, note, says: "L'Agresperdont il est convent question dans ness decemberts tail une mountaie d'or bysancine, calant, au appearanne le pertours aincet. Ratio le ducat équivalait à 10 france de mètre commis.

⁷⁵ E. and E. zill up classic, Oct. 1206.
77 Sents, Linconture de Venezioni in oriente.
Feltre, 1989, pp. 23, 24, makes the tribewing artimisilian as to the value of the prepera.
The libber contained 72 perpera Pogolotti, L. de Communication of the Veneziane (Fredelli H. Libber Communication of the Veneziane in gold was sently 0.82 few Italians; if we take the relative value of microsy in the twelfth one-timy as six himse greater than it is now, we get the value of the perpera at live Italians 36.72 or toughly speaking at 21 for

P T. and T., alil. no. clazzl., s.p. 1207.

To and To will me elevatil, a.m. 1207.

[&]quot;T. and T. zin. no. coexxviii.

[&]quot; MM.O.S., Tum. sir, p. 78.

cannot all have inhabited the Venetian Quarter, and indeed we find the Emperor Manuel endeavouring to compel the Venetians to reside in the Quarter he had assigned them, a proof that many were living outside it; indeed Cinnamus says so explicitly.82 With a view to dealing more readily with the Venetian population the Emperor divided it into the fixed population at Bavoyerror, the residents who had received the jus civitatis, and the floating population that was there for trading purposes only. xar sproplar. It is certain that the Venetians were fulfilling their obligations under the Chrysobull, for in 1150 we hear of thirteen Vanetian galleys in the service of the Emperor." But the friction between the Imperial Government and the Venetians, which had first made itself felt in the reign of Johannes Commenc, in 1122, when, omissis paternia vestigits, be refused to renew the Alexian Chrysolidl, was working steadily towards a more serious rupture. This causes were four in number, all closely connected with the growth of the Venetian Republic, and all acquiring intensity as her source towards her inevitable goal, independence of Byzantium and commercial supremacy in the Adriatic and the Levant. became more pronounced. These causes were, first the consolidation of the Venetian position in the Latin Kingdom of Jerusalem by the concessions of 1153 and 1167; secondly, the new policy which Venice was adopting towards the Normans, and her desire to trade with them rather than to fight with them on behalf of the Empire, a policy which manifested itself in and took its start from the convention of 1139, recorded in the privilege of William I., 1155, and which was declared and confirmed by the treaty with William II., 1179; " thirdly, the growing wealth, importance, and troublesameness of the Venetian colony in Constantinople, where the richer Venetions had began to form alliances with the Greek nobility, to live outside their quarter, and to disturb the peace by their quarrels with their rivals of Pisa and Genoa; " finally, Mannel was in need of funds, and the wealth of the Venetian colony, which Besta calculates at not less than two millions sterling, was a tempting pray.

In addition to these practical and immediate causes of friction there

E k.S. H. S. Bonn, 1836, Tom. 25, Communica p. 282. He says the Venetians were R. 282 to Suzaklas believing about heavypoints.

M Climiannia, foc. eff.

^{**} Basta, oga cet. quouss, Arekun ils Stato; France S. Ginegas, h. 28, "teoderim gales que fuerun in servicio domini imperatoria;"

^{*} T. and T. . ali. 133.

et RR.11.88., an p 20) Damion.

As we all it timments, p. 282. Observed to confidence of the confi

Ninotan Chemiaton, SS H. E. Roun, Tom 50, p. 200, is not quite so heavily, there has all them "save believes by great, exception and re-ords them" save on booking sometimes or known to the Sautema, while the central of European in 1174, is charged with conveniented version of light is charged with conveniented version and hatroid of Vanise, which he calls is "Algority save species," a respectively sirrough.

[&]quot; Op. al. p. 25.

was the further cause of resentment on the part of the Emperor that Venice stood in the way of his dreams for the recovery of Italy. The Republic, in nursuit of her present policy, seemed more likely to prove an obstacle than an ally. She was rapidly developing as the great Italian sea power, and had recently taken a prominent part in the Lombard League. Manual was resolved to crush Venica; but the memory of the sack of Rhodes, Chios, and Leabon during his father's reign warned him to be cautions. He began by favouring the commercial rivals of Venice in Constantinople and by urging Ancous to assume a hostile attitude to the Republic in the Adriatic (1166). Further, Manuel had freed Dalmatia from the Hungarians, who had seized the province, and just before the decisive battle of Zeugmin (1167) he sent an Imperial Dux Dalmatias to govern in the Emperor's fiame. Spalato, Tran, and Ragusa recognised the Greek authority. 90 Conscious of Manuel's hostility such a step seemed to the Venetians a menace to their supremacy in the Adnatic, and, moreover, the title of Dux Dalmatias was a title of the Doge of Venice since the year 999.11 The threatening attitude of the Emperor was accommunted and the whole situation forced to a cruis when in 1166, be called upon the Venetians as vassals to furnish the usual subsidy for the defence of the Empire against the Normans. (Two Emanuel tres legates cum tribus gallis mittens Ducem requirit ut solitum subsidium pro Imperii tutelu mittere velit.) it The Doge refused on the ground, Damiolo tells us, that the Venetians did not wish to break with William and risk their trade in Apulia (Dun autem, pacem cum Gulielmo servare cupiens ... id facers regusavit; quod Emanuel, grave ferens, erga Venetos malum in cords concepit.') " The Doge, Vitale Michiel, was aware that by this refusal he had challenged the Empire and incurred the Emperor's wrath; he was aware that the only point where the Emperor. could strike at Venice was Constantinople and the Imperial cities; he therefore issued orders, either in 1168 or 1170, forbidding Venetian merchants to enter the Empire (Dux providens Venetis as in Romanium pergerent universaliter interdical) Whether this was intended solely as a precaution or chiefly as reprisals, as a boycott, is not quite clear; nor is it clear whether, under this order, the withdrawal of the Venetian Colony in Constantinople was contemplated; in any case it is certain that a considerable number remained, and that the orders had the full effect of a boycott For the Emperor, afraid of seeing his prey slip through his fingers and alarmed at the sudden cessation of trade, sent an embassy to induce the Doge to withdraw the prohibition, and promising absolute scenrity and the usual profit to all Venetians in the Empire. The Doge was persuarled and gave his subjects leave to return. Instantly there was a rush to Constantinople and other eities of the Empire which the Venetians had come to

Lend, Die Kninshung der Vorherrichaft Verallen an der Albeit, Steadung, 1897,

^{82.} R.H. 88. Com. with p. 22.

^{*} Rot., p. 291.

m Bill, lot. off;

consider as their own peculiar domain and at first they were well received. the Emperor concealing his real intentions under a cloak of benevolence Olucri avidi et Imperii loca propria habitacula reputantes cum numevosis navibus, hourinibus et mercis oneratis ad varia loca Grascorum perrevere . . . Qui prima benigne ab so recepti 12 The unde of Constantinople revived and the Venetians, all intent on traffic, had no suspicion of what was in store. But the Emperor was muturing his plans. Troops pomed into the city as though it were preparing for a siege, and socret orders had been issued to the governors of the various towns. The leaders of the newly-arrived Venetians Sebastianus Ziani and Anvin- Mastrop tro, however, received warming from certain friends of the Venetians that the Emperor was playing them false. They sought an audience and said, 'We have heard, but we do not believe, that your Imporial Majesty is platning mischief against the Venetians. The Emperor publicly and solemnly denied any such intent and caused a proclamation to be made throughout Constantinople that he would hang anyone who dared to molest a Venetian." But troops continued to pour into the city and to man the walls as though for a siego (Maxima militum petitumque multitudo ex diversis partibus tune Constantinopolim venisset, et essent muri ac palatia adea munita quasi deberet similas ab imimicis expugners) " Then suddenly the Emperor struck (subito vernit imperator in Venetos signt les). On the 12th of March, the Foast of S. Gregory the Great, 1172, the order to arrest every Venetian is the Empire and to confiscate their goods was carried into effect. The number in Constantinopie was about ten thousand (inventi sunt enim in Constantinopoli to tempore fere decem millia Venetarum.) 36 and the prisons being incapable of holding them all many were sent to the monasteries to. They were presently released on bail owing to the difficulty of keeping so many prisoners. The property of the Venetian colony in Constantinuple was deposited in the Imperial fisc, but it seems that the larger part was filehed by the officials it. The total value, according to the Venetian claims for damages, was estimated at at least two millions sterling.

We know that some of the Venetians managed to escape from Halmyen, in Thessaly, with twenty ships, he perhaps before the blow fell; while one great ship the Totus Mundus, or 'Koopes,' the largest ship over seen in Canstantinople, managed to fly by night with many Venetians, chiefly bachelors, he board. The Greek ships pursued her, and the Warangs in board them tried to burn her with Greek fire, but the Venetians hung hides soaked in vinegar round the bulwarks and the fiery bolts were eather extinguished by the vinegar or flung back into the sea. The wind was fair

on 15 let loc ell.

e him. with home may pe like

Phil. In al. The Historia Durant and a lamina supplied from the Chemicon Judianament

¹⁰ M.M. 11, 11, 10, 14.

III MM. Q. H., foc. oil

⁼⁼ Climation, dor rife 'special ra sai light

Місетва (ос. 10%, "та тлеїм М ві тетпрдвісти Мібійности."

M. W. G. H., Inc. co. p. 79;

Nicetas, bet est, bakkaren al an paumi

for the Totus Mundus'; she 'seem to fly rather than to sail' ('፲፰७४४४४ ठेंठडडाँ को प्रवासिक्षकिया'), and, outdistancing her pursuers eventually reached Acre in safety."

When the news of Manuel's treachery reached Venice the Government was inclined to adopt a pacific and diplomatic line of conduct. It had already been decided to send an embassy to Constantinople to ask for explanations. But the arrival of the twenty ships from Halmyra, with their detailed report of the outrage, set the spark to popular passion. The Government was swept off its legs and war against the Empire declared. The disastrous course of that war, the Emperor's shifts and delays, the interminable embassies, the decimation of the Venetian fleet by plague at Chins the return and murder of the Doge, do not strictly belong to the subject of

this paper.

Manuel, alarmed at the growing understanding between Venice and the Normans (1175),205 and feeling the losses inflicted on his revenue by stagnation of commerce, and probably anxious to devote his whole attention to the campaign against the Turks in Asia Minor, endeavoured to patch up a peace, but died (1180) before achieving his object.106 Andronicus, who had usurped the Empire, hastened to come to terms with the Republic. He is said to have released the Venetians still prisoners in Constantinople and to have promised compensation for loss, 107 in annual payments. He actually began to discharge his obligations; a first instalment of one hundred pounds of perperi, that is seven hundred and twenty perperi, was paid in 1185.100 and this sum was distributed among the claimants. The agreement as to compensation for damages, whether it was made by Manuel himself or by Andromeus, consisted in the payment of one thousand five hundred pounds of perperi in six annual rates of two hundred and fifty pounds each los To this agreement the Venetians attached great importance, and their relations with the Eastern Empire down to the close of the century were chiefly concerned with the emleavour to enforce it. They succeeded only to a very slight extent, and, as Besta acutely suggests, the unpaid debt may have had much to do with the diversion of the Fourth Crusade.

The position of the Venetians in Constantinople improved considerably during the reign of Andronicus. By 1184, at least, they seem to have resumed occupation of their Quarter, and we find them leasing shops. When Isaac Angelos came to the throne (1185), by the murder of Andronicus, diplomatic relations were reopened. The Doge, Aureus Mastropetro, sent an embassy consisting of Petrus Michiel, Octavianus Quirini, and

in T and L; will hibe

att T and T., all. 172 Nimtes, for, est.

Heata op. cit. p. 18. Nicetas, for cit., etys that the Venetions sugremed the annual payment of 150 libbes of purper. Are annual payment of 150 libbes of purper.

in RR. ILSS., Tom sil. p. 500.

Proces & Zascaria, b. 23.

Besta op. cd. p. 18, holds that this was a compensation for herem cessus, over and shows the emilitation of goods; but the goods were no longer in being, and as Nestas says, the Venetians 'zie his declaration was classes and accepted the 1500 pounds of perperi in compensation 'granders' reproductor'.

in T. and T., ail 177.

Johannes Michiel, for the double purpose of renewing the Chrysobull and recovering the compensation; they accomplished the first, but met with delay as to compensation. By 1187, however, they had secured three Chrysobulls; the first contained the renewal of the privileges of traffic and commerce in the Empire conceded by the Chrysobulls of Alexius I., Johannes, and Manuel, which it recites verbatim. Certain phrases in the exactlines to this Chrysobull indicate clearly the position which Venice now held towards the Empire; is is no longer a question of 'veri et rectifulti,' but of 'Venetics non name primo Romeis federati amici,' nec nuper corum amicis fautorihusque connumerati,' accedentes fautores non vacati, who, however, in times past had been vassals 'non enim tune solummodo Romeia servi erant, verum vicim alies temporihus et locis.' The second Chrysobull confirmed the possession of the Venetian Quarter as conceded by Manuel, whose Bull is recited.

The third Chrysobull is of the nature of a defensive alliance between Venice and the Empire. Venice pledges berself to furnish from forty to one hundred galleys within six months of notice given. Venice to furnish ships and crews out of funds remitted by the Imperial fisc. The commanders to be Venetiana, but to take an oath of allegiance to the Emperor. This fleet is bound to serve against 'all crowned or uncrowned heads or nations or peoples' who may venture to altack the Empire, except against the Germans as long as the existing Veneto-Germanic treaty runs, and against the Normans as long as the Veneto-Norman treaty runs, that is, for seven years and nine months from the first of January, unless within that period King William shall attack the Roman Empire, in which case the Venetians shall come to its aid with fifteen galleys within four months of

natica given

The tenor of the Chrysoball is obviously governed by dread of a Norman attack and the imporative need of Venetian assistance at sea. Its form differs from that of all preceding Chrysoballs. It is a pactum, not a prescriptum, a bilateral convention or treaty; the Venetians are a contracting party; they speak of stolus vester, and stolus coloridatives coster (i.e. the Emperor) is distinguished from Veneticorum stolus; if the Empire makes peace or truce with any Power against whom the Venetians have been fighting on its behalf, the Venetians shall be included in such peace or truce; in all places captured by the joint flests the Venetians are to have a church, an exchange and wharf free of dues and the privileges under earlier Chrysoballs are to be renewed. There is a bargain, in return for the use of their fleet the Venetians acquire substantial advantage.

The Emperor's needs and alarm made him ready to agree to such a bargain; but on the more thorny subject of compensation he processinated (in longum trakeret) in under the growing meistence of the Doge Aureus Mastropetro. The position of Venice was strong and menacing, for in 1188 and had issued orders for the concentration of her fleet at Venice by Easter

¹⁰ RR.H.SS vil. 318, Dandeles. On T. and T., and T., and T. and T

of the following year with a view to an expedition for the recovery of the Holy Land 144 and this fact may have counselled Isaac Angelos to yield. At any rate in 1189 he agreed to satisfy Venice on those points on which we have already passed our word, namely, as regards restitution of Venetian goods saized by the Emperor Manuel, and as regards the offer of fourteen hundred pounds of perper), which over and above the restitution of goods, was promised to them on the grounds set forth in the Chrysobull on the subject, and of which one hundred pounds have been paid, us But the goods had long disappeared, and their restitution was impossible. Is was therefore proposed to give the Venetians a yearly revenue of fifty pounds of perperi secured upon the exchange, the dues and the wharfs lying adjacent to the original Venetian Quarter. To the fourteen hundred pounds of perperi still due the Emperor adds another hundred making sixteen hundred pounds in all, of which fifteen hundred are still due; of these, two hundred and fifty are to be paid at once (and have been paid) and the rest at the rate of two hundred and fifty pounds a year for six years.

But beyond this first instalment of two hundred and fifty pounds nothing was paid; and this may account for the fact that in 1196 the Venetian fleet at Abydos resolved, on its own initiative, to remain at Abydos "videntes nos, valde esse congruum et necessivium, stare cum suprvatueto stolo in Romania"), trusting their action will be approved by the Doge and people of Venice 118 Alexius III., who succouled Isaac Angelos in 1195, showed no greater alacrity in payment of the compensation. He adopted the usual methods of the Byzantine Court, negotiations and embassies, but the fear that Venice might esponse the cause of Alexius the younger, his nephew, son of the deposed Isaac Angelos—as indeed she did eight years later—caused him rejuntantly to grant the Chrysobull of 1199 in

This Chrysoball recites and confirms the Bull of Lanc as regards the defensive alliance with Venice; it renews the trading privileges, records the districts where those privileges shall be valid, and adds a number of new provisions as to the status of the Venetians in the Empire. The boundaries of the Venetian Quarter remain unchanged apparently no mention is made of the compensation, and we bear no more about it till the whole question is absorbed and disappears in the Fourth Crusade, the sack of Constantinople, the fall of the Roman Empire, to which it was no doubt a contributory cause.

HORATIO F. BROWN.

⁴⁰ E any T., an 201

off I, and T., via 267, "via first in refditions recum one Veneticis ablate factoriel exhibitions contemporaris qualitordecim operpurorum, que illera sam ipera promissa sunt ob carania, que la erisolado proluis lem adite metidiantes, ob quas es muom contemporaris reperpurorum esa per impensionaca. This seems to confirm Resta's contembra that two compensations were promised, (II the restitution of goods and

wifer come 1500 pounds of purpure, suffect 1400 hors as 100 faul been stready paid by Ardreniess. The Chrysofault here referred to dissent exist, but it probably was the agree ment said to have been made by Manuel or by Andressene; we sames therefore tell what the ground of this further enoughness and have may well have been of hereus

¹⁰ T. and T. and 215.

m T. and T. sti 246.

MILITARY OPERATIONS ON THE NORTH FRONT OF MOUNT TAURUS.

[PLATE IV.]

I .- THE MARON OF XERNES ACROSS ASIA MINOR:

This route by which the army of Xerxes marched across the plateau of Anatolia has never been determined with certainty. On general considerations it may be stated with perfect confidence that the army crossed the Taurus by the pass of the Cilician Gates. The reasons are conclusive; there was, in fact, no other way, and the matter is so generally admitted as to need no discussion. Thereafter the great army gathered on the north sale of Taurus at a place called Kritala in Cappadocia (Herodotus, vii. 26). Whether Kritala was a town or a locality (such as a plain with a river) is not stated; but, taking into consideration all the conditions, one can say with cortainty that it was situated either in the fertile plain of Tyana or in the equally fertile and well-watered plain that lies between Kybistra and the lake called in modern times Ak-Gyol. The next point stated exactly by Herodotus in the route of the army is Kelainai at the source of the Macander. The question is how the journey was performed between those points, the Cilician Pass on the east and Kelainai on the west.

Herodotus says that the Persian troops crossed the Halys into Phrygia and traversed that country until they reached Kelainan. In discussing this route in H.G.A.M., pp. 36-41, I accepted that statement after a good deal of hesitation, stating the doubt, on account of the great detour involved, whether it was not a mere error introduced by Herodotus in the lack of exact knowledge. In the end, however, I accepted the statement, which would imply that Xerxes murched along the famous and ancient Royal Road, but years of consideration, and growing experience of the conditions governing the possibilities of marching across Anatolia, some me to the condition that Herodotus inserts the reference to the Haly without definite authority, morely because the Haly was the river of boundary between Phrygia and

The construction and importance of the cond through the Gutes, as a determining factor in very carly history, and the connection with the Some of Javan' (this Old Ionians), marked appearity by the names Moreov and

Application, are described in The Cries of St. Post, pp. 113 ft, and the course and the ine-fineval history of the read are treated in a paper in the Geographical Journal, 1903, pp. 257-413.

Cappadocia.⁴ This statement is an ornamental touch designed to give liveliness and detail to a narrative of march, which (except at Kelainai) was singularly have and devoid of such lively details as Herodotus loves: much of the value of his narrative lies in those personal details of human character and conduct, which usually throw a brilliant light on the life of the times and surroundings of the central facts. It must seem to anyone who reads the passage that Herodotus had practically no information with regard to the route traversed between Kritala and Kelainai.

It would not be easy to explain why the army marched by a route which increased so greatly the distance, the time required, and the difficulty of finding provisions and water. In H.G.A.M., pp. 36-41, I sought an explanation in the compelling influence of the old and familiar 'Royal Road'; but better knowledge has forced me to abaraton this view. If the army crossed the Halya it would have had no possible path except to march round the northern side of the great salt lake and of the dry region which extends around that lake for a great distance in almost every direction (i.e. to follow the line of the 'Royal Road'). The region on the west side of the lake was called in Kiepert's older maps the salt desert, and was there described as waterless, though it really is easily traversed in every direction by small parties, because there is sufficient water even at the present day for a small population and for a few travellers; but in order that an army should find sufficient water it would have, so far as possible, to keep away outside and north of the dry region; and while it could murch through the region afterwards called Galatia, especially through the Haimano,2 where there are flowing streams and sufficient supply of water, yet it would be very far from wasy to cross Cappadocia from Tyana to the Halys, and it is also a quite inacceptible theory that the army deserted the 'Royal Road' somewhere in north Phrygia and turned south again to Kelainai (see below).

Moreover Herodotus speaks about Xerxes as simply crossing the Halya If Xerxes followed this northern route, either he must have crossed the Halys twice, or he did not cross it at all; the best way for the musch after the army reached the Halys was to keep along the left bank as far as the line of the Royal Road where it crossed the river, and then keep west through Galatia, where rivers would supply water. The idea therefore that Xerxes crossed the Halys at all must be dismissed. Whatever road he took he did not require to, and would not cross the river. I have traversed almost every mile of the ways on various journeys and speak from personal experience in reference to the natural and inevitable line of march for an army from Tyana into Galatia, or (as it was then) north-eastern Phrygis.

Another consideration must be taken into account. The Royal Road in its western section, passing through north-west Phrygia and reaching the

^{*} Herod. E 72.

^{*} Both the Bymatics Military Road and the very numeral "Royal Road" used the Haimané route (H.G.A.M. oh. G and p. 31). Is is true that Gelses (and following him

others) sinks the By-antine Road per right across the dry region; but they do not take note of the practical facts that determined marching possibilities.

Hermos valley, presents considerable difficulty to the march of an army and formerly I resorted to the supposition that in order to avoid this difficult section of the Royal Road Xerxes diverged for to the south so as to reach the sources of the Macander at Kelamai (H.G.A.M. pp. 39-41) It would be necessary on this supposition for the army to make not merely a second very long detour, but also to traverse rather waterless country. The route, however, would not be wholly impossible; for there is moderate but not abundant water along the route; this part of Phrygia was doubtless well cultivated, and could supply food, grown within moderate distance of the march. It is assumed that considerations of water supply determined the exact route; food could be carried, but not water in sufficient quantity.

The detour is enermous, however, and considerations of distance and marching possibilities show that this supposition of a northern route cannot be assignally entertained. The army did not cross the Halys or go through northern Phrygia.

Another route then suggests itself. Did the army march through central Lycaonia, south of the salt lake Tatts, following the line which was so important in later history and which may for convenience be called the Central Trade Route ? This supposition also must be dismissed with brief remark. The line of the central Trade Route is far from the abortest way from the Cilician Gates to Kelainai, though it is much shorter than the northern route. Moreover, in certain sections, and especially in that which acparates Tyana or Kybistra from the eastern part of the Trade Route, the water supply is scanty and the country unproductive; and this line would be chosen only if there were no other possible. This point med not be worked out at length and in detail. We have been over the whole way and the opinion here expressed is forced on me by our experience. It is a route for travellers and trading parties, not for armies. The abortest line may be called the 'Syrian Route,' from the Cates to the best point of junction with the Central Route. The 'Anabasis' with its strange rigrags, illustrates the unsuitability of the Contral Route.

There was, however, a route which is the shortest, and which leads almost continually through fertile and highly cultivated country, furnishing alumdant water supply at very frequent intervals. This is the southern route, or Pisidian road, although (to be more accurate) it loads through Lycsonia and Phrygia to a greater extent than through Pisidia; but it may be called the Pisidian road on the same principle as Antoch was termed the Pisidian city, because it was situated in Phrygia-towards Pisidia and was intended to defend the Phrygian country against the Pisidian raiders (see J.R.S., 1917, p. 242).

Kritala then must be the name of some locality, region or town, near Kybistra and the Ak-Gyol, a region highly suitable for the assembling of an army. Troops coming from the east would concentrate here, and

^{*} The Sprian Boute reaction the Central through Kybistra Kara-Binner (Hyde?) Kanna Route near Saverik (Pechila), passing (Kana) and Belmir (Perts.)

it lies at the western exit from the pass of the Cilician Gates by way of Kybistra. It is indeed high and in winter cold; and it an Oriental army concentrated here (or in the valley of Tyana) the soldiers would suffer greatly from cold and diseases consequent on exposure and crowding Naturally, however, the concentration was so arranged that no large body of troops was detained long at Kritals, and the march was made in such a way that division after division (1) moved forward through the southern edge of Lycannia by Laranda and the fertile lands near Taurus, (2) along the course of the river which flows must down through the mountains to Lycaonia from the two great lakes, Karalis and Troginis, (8) then round the east and northern coasts of Karalis and the Liminai and (4) up the river Hippophorus. The road would leave the site of the future city of Antioch on the right and pass close to the site of the future city of Apollonia on the has mentioned river. (5) It would come down from the hills on the great fountains called Autocrone, a landmark in history and in mythology, where many years later the Roman army of Manlins bivomacked on their northward raid into the Galatian country, (6) From these fountains the march to Kelamai is easy, and in truth there is no other way except through Kalainai

Anyone who traverses this road recognises at once that it imposes itself as the necessary and unavoidable line of march for a large army; small forces and mounted raiders (like the Arabs in the long wars 660-960 a.c.) have a choice of ways from the Cilician Gates Pass; but the great army had only one roate possible. Both food and water are abundant on the Findian Route, for this way traverses a series of highly cultivated and fertile regions and valleys with very little unproductive land, and is nearly on a level the whole way, crossing only one hill pass that presents any difficulty, and this pass is short, coming down on the Fontes Aurocrent from the sources of the Hippophoras.

The army must of course have marched in detachments; and the quaint story teld by Herodatus (vii 60) about the way of counting the numbers of the army proves that each body consisted of about 10,000 men. Grote, who sometimes shows unbounded credulity in matters belonging to what he considered the historical period combined with unjustifiable capticism in respect of the period that he counted mythical and regarded as containing no trustworthy fact or date, holds that Herodotus's story can be accepted and that the number stated is approximately correct, except that the number of slaves and attendants must be cut down. If Herodotus, however, could are in such an essential fact as the number of attendants; the story as a whole loses verisimilitude. It probably has no other basis than the numbers in each detachment of the army. The army marched in bodies of 10,000: that was the historical truth. It would be difficult, or rather impossible, to manageners and feed a larger body of troops at any one point on the same day. A very large number, such as the Persians sometimes collected, only impeded

Burrent in Lavy, xxxviii, 15; this district to Aurokra, Anhaxa, or Aurokla.

itself, and was rather a source of weakness than of strength. The idea that five million, or even two million, of men could march in one body on one day, and encamp together, which seems to have been the idea of Groto and various other historians, is incredible. It would take many days for an army of such a size to traverse any of the narrow though easy passes an this route, and there would be no possibility of feeding or watering such a body. Juvanal's statement that rivers were drunk dry by the marching armies is simply an expression of the impossibility of the case; and so with the other bold inventions that "lying Greece dared to concect." On the other hand, there is no reason to doubt that the army was very numerous, for beyond anything else in ancient time.

If we describe this Pisidian route in terms of Anatolian geography, which was founded on the divine law and ritual, and which regarded the whole land as portioned out under the presidence of local manifestations of the divine power, the army assembled under the protection either of the god Sandari-Herakles, who is pictured on the rocks beside the great fountains at Ibriz, or of the deity who was resident at the hot springs four hours north of Kybistra. The abundant waters of Ibriz, flowing down into the plain past Kybistra, turn this corner of Cappabous, where it meets Lycaonia, into a garden; they were the grit of the toiling god for the benefit at manking generally and of the army on this particular occasion. It was really the same god that was manifested at the hot springs which, in the Gracco Anatolian world, were so frequently attributed to the beneficence and labour of Herakles, and connected with his name. The river of Ibriz unites with the stream which flows from the valley of Tyana to form the lake of Ak-Gyol, and any water that comes from the hot springs unites with the latter stream

Thereafter the army was protected by the god who ruled at Laranda doubtless Herakles pictured on coins of the city. Next on the route comes the god of Derlie, again in all probability a local variety of the same god Herakles Sandon, as the rare coins of the city show. The god of the Homanadeis is next welcomed the army as it passed through the wonderful canon of the Biver of Underground Springs (The Khordadhbeh), and reached his territory, rich and fortile, on lake Trogitis. Thereafter comes the land of Mannes, the country of Ouramma or Ouroda, one of the greatest and wealthiest Anatolian gods, who ruled a wide land and great numbers of temple servants. His country probably included all the western shores of lake Karalis and of the Lamnai, with the rivers that flow down from Mount Olympies (Sultan Dayh) into the lake region. In Gracco-Roman times he

[&]quot;If Cyrne the Younger restricted his army on the Architect in 10,000, that was not because he sould not have collected a larger force, but because this was the known next come for a suscehing force in one body.

⁴ Hecodetes mentions only the fittle stream Melas as exhausted by the stray, but there is some truth under the "He."

^{4.1} have notice violed that has epenge

har months them on the authority of Hamilton, Researches in A.M. II. pp. 201-308.

On the Personny Gold of Them one finds the Physical and Other Studies in Belly and His tory, p. 174.

^{**} Between Derice and the Homanuless there was a methor of Isauriene land.

⁴⁴ J.R.S. 1918, pp. 148 R.

was more famous as Men of Antioch, and a local variation of Men was Mannes or Zens Ourndamenos on the north coast of the Limnai.

Calder to has published a remarkable inscription dedicated to the god in the country of the Homanadeis in his divided form us the supreme Zeus and the messenger Hermes, which we copied at Balvklawe. In J.H.S. 1918, pp. 144-151, I have had a great deal to say about the religion of Mannes, the neighbouring god to him of the Homanadeis. As it chances, evidence with regard to this religious centre is considerable, and yet the actual situation of the primitive sanctuary has never been discovered. Monuments relating to the religion, however, are numerous, and have been published in a variety of articles.¹⁵

The next deity who gave bespitality to the marching army was he who reled and helped the people in the valley of the Hippophoras, where are the prings and healing water of Hercules Resistantor. This fountain apparently was his central nome at the old township of Tamandos, which for a time was submerged by the Graceo-Roman city Apollonia, but which was recognised throughout history, and even by the few Apolloniate Christians of the present day, as the help place of the valley. From the valley of Hippophoras the line of march led over a pass which at its highest point is rather narrow, and then descended by a very steep road into the upper Masander valley, where lie the great fountains and the scene of many legends connected with the city of Kelainat, as e.g. the invention of the flate by the goddess, and the fate of Marsyns who picked up the musical instrument that the goddess had thrown away. From this point onward the route coincides with the Central Trade Route and leads through well known Phrygian country.

It would require far too much space here to dwell on this religious geography. The evidence in each district is founded either on coin types or on sculptural reliefs, or on geographical considerations, or on inscriptions.

Along the whole way there is no marching difficulty. Although the route leads close to the front of Taurus and is frequently bordered by hil country or even high mountains on either hand, yet it is almost continuously level. The height above the sea is uniform varying from 3,300 to 3,700 ftercept at two points. There is a ridge separating the valley of the Anthios (which flows by Antioch) from the valley of a neighbouring river which, like the Anthios, also flows into the Liminai; but this ridge is a gently swelling devation which presents no difficulty even to whoeled carriages, though the road crossing it rises to nearly 4,000 ft. Again the passage from the valley of the Hippophoras to the valley of the Masander presents a certain difficulty, as it is narrow at the water-shed, which is over 4,000 ft. but to an army marching from the east the ascent is gradual and easy, and the steep descent

¹⁰ Chain. Mrs., 1910; p.: 76.

¹² Sec. J.H.S. 1883, p. 23 8 with improved in Studies in the Busiers Research Province pp. 307-377; H.S.A. 1912, p. 54; J.H.S. 1912, pp. 151-179. Marries Ouram mass, the old Anatolian god, became the Hullenbert Men of Anatolian pod, but his maccurary

on a peak above the city is a Heliminite foundation. The old successory was in the region of the Antischinne (Strates, p. 557), perhaps in the ridge affect States Heat.

^{*} J. H.S. 1883, pp. 68 ff.; C.B. Phr. 11, p.

on the western side is much more easily traversed than it would be to an army marching castwards. Cyrus the Younger avoided this pass on the Anahasis, turning away from Kelainui towards. Peltai on the north-west, although the estensible pretext for his march was that he wished to punish the Pisidian raiding mountaineers: thus he came for part of his route to the central Trade Route, rejoining the Pisidian Route by way of feening and Laranda, and thus taking advantage of the fertile south Lycaonian land.

The road by which Xerxes marched was a historic highway of the greatest importance. Its use begins with the dawn of organised communication in Austolia. In H.G.A.M. p. 57, it is briefly and incompletely insluded because when that book was written. I had not had the opportunity of exploring it, and much of it lay through anknown ground. So far as I am aware, its complete course has never been described until now. In 1882 I travelled along it from Kelamar-Apameia to Kirili at the north-eastern corner of lake Karalis, and there diverged from it, following the line of the Roman Road, a Van Sebuste built by Augustus in 6 n.c. in the organisation of the country that followed after the Homanadensian war, it Augustus preferred this route to the longer course along lake Trogitis and through the great Aulon, or canon, which leads eastwards from its south-eastern end, because his object was to reach the colony of Lustra or Lystra, which was one of his new foundations intended to guard the southern frontier of the province Galatia. I wrote in 1882 a description of this road, incorporating various inscriptions and several milestones along its course; but the paper was based on too canty evidence, and was postponed in the hope of making further discoveries in the future; the material was all placed at the disposal of Monansen for the Supplement to C.I.L. iii. The only parts of this paper which were published were a short article in J.H.S. 1883, p. 23 ff. and another in the Athenische Mittheilungen, 1883, p. 71.

On the old Pisidian Route there were at least three separate well-marked passes or kleisoural all of which bore the name Anlon. One is the long callon which extends east and west from the south-east and of lake Trogitis, in ancient times carrying the water of that lake to join the river of Isama and through it to the plain of Koma, and in modern times carrying the great trigation channel that has been once more opened up. A second Aulon stretches between lake Trogitis and lake Kuralis. No reference to these two tunnels, is, so far as I know, contained in recorded history, except the words of Strabo p. 569. The route of Xerxes march traversed both. They are extremely fortile with abundant never-failing moisture; and the first has a temperature almost tropical in summer, for the cafees leads east and west, and is exposed to the sun all day, while the perpendicular rocky sides radiate the heat on to the moist soil and retain their heat throughout the night is

This mute was certainly in use before Augustus as it is required to connect from him with the with

If I have not traversed the second Auton, south of Muchin; and it was only in 1909

that we travered the first remarkable amore being as I believe the only explorers that have core through it. For the Auton from Karalla to Trought I depend on Sucress's carroll and detailed account and map.

There is a third Aulan on this route; for the section of this great highway between the west and the east was called the Pisidican Aulan. The word Aulan has a special geographical character. It seems to be applied to a pass leading out of open country into open country. It is literally a finnel. It does not denote a gien opening down from a higher background of hill or mountain into low country. The Pisidican Aulan was situated at the northern edge of the Pisidian country, being a pass or kleiseaura which leads up from the north-east end of the Limnai towards. Antioch The pass is in a sense easy and open. It is bounded on the south by a low but steep ridge, which bore the name of Snake's Head and which at its western or south-western and projects far out into the Limnai. On the northern side the Aulan is limited by gently swelling hills which rise towards the northern mountain ridge, called in modern times Kura Kush-Dagh, Eagle-Mount.

The soldiers of the Third Crusade in 1750 A.D. commanded by Barharcess, passed in their murch along the valley of the Hippophoras and the north bank of the Lamnas and up the Aulon. They were harassed by the Torks on their passage through the Aulon, and when they emerged from it on to the open country close to the village of Gundane they saw a large Turkish army on the gantly aloping but rather lofty ridge which separated them from the valley of the Anthios and the town of Antioch. Their natural course lay across this ridge, but the attempt to force a passage in the face of a considerable army occupying such an advantageous position, light-armed indeed but for the most part mounted and able to charge down the slope on the infantry of the Crusaders, was too dangerous. The chances were great that the light-armed Turkish cavalry would overpower the already weary crusading forces. In this dangerous situation the Crusaders were saved by a captive, who promised to lead them across the hills of Kara-Kush-Dagh on their left hand northwards, so as to join the Central Trade Route and then pass round the north-west end of Suitan-Dagh (Mount Olympos) and so on through level country to Iconium, the Turkish capital. The delicate operation of maintaining a front against the Turkish forces while transferring the army to a new route was safely accomplished. It was probably aided by the confident belief of the Turkish leaders that there was no other way, and that Barbarossa (like Manuel Commenus in 1176) had fallen into their trap. We may conjecture that the most critical part of the operation was carried out by night and that a marguard maintained the show of resistance, while the rest of the army moved across the narrow and difficult but masible pass that separates Kara-Kush-Dagh from Sultan-Dagh. With this operation the murch of Barbarossa passes out of our subject, but it gives the cine to the locality of that great disaster in which the splendid army of emperor Manuel Commenus was destroyed by the Turks in 1176. The Crusaders as they marched along the Aulon saw and were horror-struck at the remains of that great disaster, and this carries us back

[&]quot; J.H.S; 1018; p. 144

14 years to the actual event, which was decisive in the history of the wars between the Byzantine Empire and the Turks for possession of Western Anatona. The whole of the plateau and even part of the law country as far. down as Nicaea on the north-west had been abandoned to the Turks after 1071, when the emperor Nicephorus Botaniates seems to have bought their support in the contest for succession to the empire by giving up to them a great part of Anatolia. Two successive emperors, the crafty Alexius and the brave and skilful John Commenus, attempted to repair the treachers of Nicephorns. Alexius chese to advance direct from Constantinople by way of Dorylaion, but John conducted his operations against the Turks, whose capital was at leonium along the line of this Pisidian road by way of Lacdicein, Apanicia, Apolloma and the Aulon, Dohn had carried the Byzanting arms as for as the Limnar captured the town of Apollonia, which in Bezantine times bore, on a neighbouring site, the name Sozopolis Manuel carried on the war in a somewhat fitful way. He was personally conragions to the verge of rashness but he showed little or no strategie qualities. There is no evidence of any concerted plan in his operations throughout his roign, as there is in the case of his father and grandfather but at last with a great army containing the flower of the castern troops together with considerable contingents of Normans and Varangians be essayed the great task of a much direct on the Turkish capital. Evidently the thought of resistance on the part of the Turks had no place in his calculations. He regarded his march as being intended for the capture of feomum, and he encumbered his army with a siege train which was far from suited for active operations in any preliminary battles against Turkish troops.

Other operations and negotiations relating to the Aulou baside the

Limmai are briefly mentioned in a note to J.H.S. 1918, p. 144.

A fourth Anion on this road may deserve a word of notice, although there is no reference made by any ancient authority to it, or to the use of the term Aulun in respect of it. This is the passage leading from the plain of Kara-Aghatab to the plant on the north-east of Bey-Sheher lake, at the southern and of the passage is a locality called Momatir, the name of which is reminiscent of pre-Turkish society, though we failed to find any justification for the title. This level easy pass between rocky hills on each side leading from one valley to another corresponds exactly to the meaning that Strabo seems to attach to the term Aulon. The pass slopes gently down to the south in the greater part of its course. It seems probable that Strabo in referring to the Aulous which can out from Trogitis had in his mind the thought of more than two. This may be an inexact references to the existence of so many Aulous on the course of this important read which leads along the coast of Trogitis. Strabe, without any doubt, had never seen this mountain region and it is quite in accordance with the ragueness of his description of this region, taken in conjunction with the

¹⁶ It is not certain that John over reached tim Anton : probabily he that not entry his area beyond the Limmi. Even Amineia

was exposed to the mying Turkish monada as his death,

essential truth of all that he says about it, that he might have supposed the four Aulons to be very closely connected with Trogitis, as two of them obviously are, while two are closely connected with Karalis and one with the Lamnai. On the other hand the high pass crossing from the gien of the river Hippophorus to the valley of Aurokra wants the essential features of an Aulon. It is a mountain pass leading gradually up westwards to the summit of a high ridge and sharp down the other side.

The existence of this remarkable route whose character and continuity. has never before, so far as I know, been observed, and which has long ceased to be a route for communication, goes back to a very early origin. It belongs to a time when Iconium was not a principal city in Lycaonia. In truth Iconium does not lie on any great line of communication. It was the superior advantages of the site and the excellent water supply, and its convenience as the capital of an extensive and fertile plain, guarded by the great fortress on the hill of St. Philip (Takali) throughout at least Byzantine times, that gradually made Iconium into a principal city of Anatolia and the capital of Lycaonia (although it was in nationality a Phrygian and not a Lycsonian town). Its natural advantages, however, are such as to have made it a centre of population, though on a small scale, from the begunning of organised acciety. It was still a small city in the time of Strabo; who had not himself actually seen it, but speaks in a vague way of it as situated somewhere in those regions. Great stress is to be laid on his curious expression somewhere. This is to be contrasted with his expression as an eye-witness about Sostra on the opposite side of Boz-Dagh, twelve hours from Iconium, where he can speak about the water being sold in the streets by water carriers to the thirsty population, a unique fact apparently in his experience. He does not actually say that he had seen this with his own eyes but the expression is so marked and peculiar as to suggest that it springs from eye-witness.

As the importance of Iconium increased it attracted the roads to itself, and although some of these had to pass through considerable extent of dry and therefore unproductive soil, yet they came to surpass in importance the old road through the fertile lands of the south close to the foot of the Taurus, even although this latter road presented so many advantages in respect of marching purposes; of water supply, of abundance of food and fertility of soil, and offered a path from the Cilician Gates to the west not much longer than the shortest way through Iconium and distinctly shorter than the longest way round by the Royal Road. The ancient road through this Aulous by Trogius, however, did not pass entirely out of use until Turkish time.

I have attempted to make this account of an important road clear by an accompanying map, showing on a larger scale the middle of the road and the country traversed by it with Antioch as the capital: the whole line of the principal roads along the Taurus Frontier can be readily gathered from Andarson's or Kiepert's map. We know these in respect of the Roman period when this was the frontier of the province Galatia on the south

II.—Skerch Map haustrating the Military Roads along the Pisidian Frontier.

In order to elucidate the importance and increase the intelligibility of the map (Pl. IV.), the following notes on a somewhat extended scale are required. The country is obscure and little traversed as a whole. Isolated expeditions have gone over parts of II, sometimes with great accuracy, but no traveller has ever gone along the great ancient road continuously from the one and to the other. The map is necessary for the understanding of the Roman Wars on the north side of Taurus, especially for the campaign of Servilius Isauricus in 75 s.c., and for the war in which P Sulpicius Quirims destroyed the power of the Homanadenses, 11–7 a.c.

This map is also used to illustrate an article on the latter war in J.R.S. 1917, p. 229, and may be applied to illustrate the account given of the Isauriean war conducted by Servilius Isaurieus, published in J.H.S. 1905, pp. 163 ff.

As the map assumes and implies a reasoned system of the topography of the northern Taurus and the adjoining part of the central plateau some brief explanation of the reasons and the authorities is practically necessary to make it useful.

The map is intended only to emphasise the main features, and makes no pretension to accuracy in representation of hill contours. I have taken the opportunity of inserting certain names which illustrate other military operations of Roman and Byzantine times, notably the crushing defeat of the great army with which Manuel Componus was marching to capture Iconium in 1176.

The topography of the important inscription published in J.H.S. 1915, p. 140, also forms a feature of the map; and a few of the villages on the Imperial estates whose population was united in the religious society bearing the name Tekmorean Guest-friends; in the period 250-320 A.D. are inserted.

I have given the name Olympus to the great range of the Sultan Dugh, which bounds the valley of Parcreios on the south-western side. The reasons for assigning this name would require a full discussion of the topography of the region between Antioch and the Limnai. This discussion has been written, but is too long to find a place hore. The topography of this little region of Pisidian Phrygia is now settled with almost unique accuracy and completeness amid the general obscurity of Anatolia. Only the Troud is better known.

A brief ontline of historical discovery may be usefully appended.

The site of Antioch was fixed by Arnmiell on apigraphic evidence; that of Philomelion, the companion city of the pair described by Strabo, p. 577 was fixed by the same traveller from Strabo's account, which is so clear and appairs kildle; but (strange to say) no mention of the name Philomelion has been found in inscriptions of the region.

Paroreles is the great valley between Sultan and Emir Dugli, Pisidian

Phrygia is the fertile region of Phrygia adjoining Pisidia, and containing

Antioch, Apollonia, etc. Strabo calls it Phrygia wpby Unriela.

The site of Hadrianopolis is determined with certainty by general considerations a few miles south-west from Philomedian. The exact situation and the rains of the city have not been discovered, but the name occurs in an inscription found by Storrett in this neighbourhood, and the reference to it on the march of the emperor Alexius Commonus leaves no doubt us to the approximate situation. It was in all probability the re-foundation of the ancient Thymbrian, probably on a different site not far away from the older city. Through its territory flowed the river Karminos into the lake of the Forty Martyrs whose more ancient name is unknown). It is certain that Thymbrian was the early city of this region. Philomedian was a Hellenistic city which overshadowed the more ancient centre of life whereas Thymbrian lay off the line of the Great Boad, closer to the footnills in front of Sultan-Dagh. In Roman time the more ancient city revived in importance and was refounded early in the second century as Hadrianopolis.

It was first suggested by G. Hirschfeld that the double lake of Horan and Egerdit was called in ancient times Limnal, and this excellent conjecture is taken up and reinforced by various arguments in H.G.A.M. p. 114: see also pp. 172, 334, 389, 396 f., 407, 411. The Holy Mother of God of Limna Empharics problems ripe dylas Georgeon Alpras, was present at the second Council of Nicasa, 787) could hardly be separated from the shrine on the coast of Horan-Gyol, where the Assumption of the Virgin is calchated by the Greeks every year, although it is situated in a parely Turkish country, the nearest Christian settlement being at Olu-Borlu. It is also impossible to ignore the fact that this Virgin Mother of the lake was a Christianized form of the Virgin Artemis, whose worship on the north-cost coast of the lake and in the neighbouring region was so important in ancient time.

as we learn from the inscriptions of the Tekmorcian Guest-friends.

The situation of Myriokephalon and Misylos in the low ground between the mouth of the Auton is and the owl of the Linnai is evident from the marrative of Nicetas, p. 232 f. and from the inscription already mentioned in J.H.S. 1918, p. 140 ff. The promontory of Snake's Head and the land of Ouramma are assured from the same inscription. The representation on the map gives no corresption of the remarkable appearance of this long ridge, which extends from Olympus towards the south-west far out into the lake, forming the watershed between the Auton and the valley of the Authios. Its northern face towards the lake and the Auton is a perpendicular rock, but otherwise it is a bare undulating high ground. Exploration of this ridge is argently

Professor Mariles was the Problem or Phrygan word for serpent; and Musilikunnaton was distorted to Mystokephalon to out his fivanatine popular styrodegy. Ophical ephalon occurs in Hellonistic Hote

Compare the American or Lyton name

Ournamon in given in the map, is without optigraphic authority become the permutal hours Ournamona, Equipments).

required. The little rock-cut chapel where the Greeks from Olu-Borlu, and even Sparta, go to celebrate the Koimesia of the Panagia every year on the 15th of August is well worth a visit. The chapel is our in the face of the rock of Snake's Head, and is easily reached by walking along the water's edge from the little plain of Misylos. Beside it is the curved front. of a sepulchro of the old Phrygian type, smaller to, but much smaller and much simpler than, the splendid tombs at the Midas city. This front indicates that close to it was buried one of the chiefs of the early Phrygian ousels into this southern land; but long before the Phrygians came here the site was exceed and the Phrygians by the grave of their chief claimed to contribute to the sanctity of the apat. The Christians in turn gave a Christian character to the old Austolian sanctity, connecting it with the name of St. George Limniota who was canonized as a prominent figure in the struggle against the iconoclasts during the eighth century. The epithet marks him, as being connected with the Limnar while the brief narrative associates him with Mt. Olympus. The festival of the Assumption of the Virgin (Koimers) was instituted at quite a late period; and at this spot, as we may conjecture, it was connected with the bermitage and the rode little chapel out perhaps by the hands of George of the Limnai himself. But the spot is marked as sacred by the hand of nature or of the god by a remarkable physical phenomenon, an arched doorway of rook which stands on the edge of the water and may perhaps have been regarded as the door to the realin of the dead and to the home of the goldess, the Mother of her people, to whom they retarned in death. The locality was explored by Miss Bell in 1907; visited by Anderson and me in 1912.

Out in the Limmi opposite this secred place is situated a little island which was visited by Miss Cortrude Bell in 1907. She saw here under the water a sepulchral stele with an inacription. Later in the year this would be left uncovered as the level of the waters in Hoisan-Gyol is much lower in the autumn.

The place called by Nicetas VII. Anlakes was the scene of the final stage in the crushing defeat of Manuel Commence. The position is evident. It lies on the right hand of the scad from Antioch towards the west. The battle began in the Anlan further down towards the lake, but the vanguard of the army passed on over slightly rising ground between Ganzaa and the VII. Anlakes and remained unaware of the earlier stages of the slaughter. Karbo-Kome stood close to the lake-end, as was proved by an inscription published in Studies in the Eastern Roman Provinces, p. 300. The lists of Tekmoreian Guest-friends prove that the same individual was sometimes spaken of as Karbokometes, and sometimes as Marsanos (Studies, p. 351). This implies that Karbokome and Marsa were in close relation to one another, one perhaps a village and the other a farm close to the village 21

^{*} Compare the raw of Baril and bin involves who were spoken of sometimes as matives of Nasurana (Neutri), sometimes at

belonging to Karbala or Kayrala, the family annie (now called tarburo, a large Curutian village).

Marsia was placed conjecturally half-way between Antioch and Apolloma in J.H.S. 1883, p. 33.22 The proof of this conjecture was discovered only twenty-two years later (see Studies in the Eastern Roman Provinces, pp. 355, 367) in the inscription of Karbokoms.

On Dao-Kome, presumably Wolf-Village (doos Hes.), see Studies, p. 364. The site of Anaboura was recognised by Sterrett in 1885. On the site of Neapolis, see Ath. Mitt. 1885. It was the new city which grew up on the line of the Great Road, whereas Anaboura lies about six miles away from the road in a secluded position. If Neapolis had been founded by a Roman emperor it would probably have borne a Roman name, but it developed with the road and really is a sort of extension of the people of Anaboura to keep themselves in communication with the world. Pliny is the oldest authority that mentions Neapolis: Strabo, quoting Artsmidorus, whom he follows in respect of this region wholly unknown to him personally, mentions Anaboura. The comparative importance of the two changed between 100 arc and 79 a.c.; Pliny, however, used the lists compiled for Agrippa, and perhaps 12 a.c. should be taken instead of 79 a.c.

The modern market town Kirili probably preserves a reminiscence of the old name of the take Karalis, adapted to Turkish pronunciation and language. There was undoubtedly here, or in the immediate neighbourhood a village of some importance and a station on the read. A large milestone in the cometery belongs to a very early period, but the inscription has been obliterated by weather, which the stone could not resist. It seemed to me to be probably one of the Augustan millioria on the Via Sebaste. That way forked further north, evidently at the southern end of the extremely easy and lovel pass (Aulon?) which crosses the watershed south of Kara-Aghatch, probably near a site which bears the name Monastir, a reminiscence of its ancient importance. A Roman bridge (probably Augustan) over a stream which runs only in the rainy season, and which was dry when we saw it in 1901, belongs probably to the age of Augustas, and proves the line of the other branch of the Via Sebaste not far from a village called Genranmez.

The situation of Tymbrias was fixed by Sterrett on the upper Eurymedon, as placed on the map (see H.G.A.M. p. 406, No. 27). There was, however, no definite evidence, only general probability. Some unless to the east in the same valley Sarre (A. E. Mett. 1896, B. 6, p. 52) found an inscription mentioning the compost Providence. I suggested in the Ocst. Jahreah. 1898 (Beiblatt, p. 95), that Providence had been misread and that the initial letter was T: also that, by error of the stonecutter in this rude inscription, the middle syllable BPI had been omitted being possibly added on the side of the stone and left unnoticed by the copyist. The first part of this conjecture was confirmed in the same Jenrual in an appended

Massa, according to this conjecture, would be on the lake north shore between the way side Kiran at the N.K and of the lake (Karks-kome) and Genj-Ali at the N.W.

of the lake (Hurran-Gyol);

— Ou the heldge on Crossin in J.H.S.
1992

note by Kalinka. The stone reads Toracce. There remains, however, the uncertainty whether this implies a fortified village named Tynada, or is an error for Tyn bri)ada. The site apparently was Sivri-Kalesi, which is situated near the village Torziler.

The situation of Malos at Malok-Kalesi was suggested in B.S.A. 1902; p. 259. The survival of the name seems to afford satisfactory proof, and it is precisely in this region that Malos ought to be found. It was the Maλok προς Χώρα Σακφρόν of the Tokmoreian lists (stated as probable in J.H.S. 1912, p. 169, where the meaning of the name Khoma is discussed); there are come of Malos.

Adada was recognised as Kara-Baylo by C. Hirschfold on the evidence of an inscription of Sterrett's, which the latter strangely regarded as a proof that Adada was situated at a different site (H.G.A.M. p. 408, No. 32). Zorzila was perhaps situated in the middle of the Eurymeden valley, where some city and bishopric is to be expected; the inscriptions about Kiesme and Kassimler might belong to it or to one of the villages that constituted the township.

Tityassos, the last name in the Pisidian list of Hierocles, is placed in B.S.A. 1902, p. 259, but evidence is lacking.

These four hishoprics, given at the end of Hisrocles's list of Pindia, necessarily lie along the southern frontier of that province in the Byzantine time, and as the situation of the first two is comparatively certain, the position of the third and fourth are likely to be not far from the sites stated on the map. They were probably not $\pi \delta \lambda \epsilon \nu s$, but groups of villages after the Anatolian system.

The sites of Vasada and Ambiada were detected from inscriptions found by the Austrian Expedition of 1902, and the explorers suggested that the site of Misthia was at Fasaller. In H.S.A. 1902, this suggestion is accepted and reinforced by the observation that the strong castle of Misthia is that powerful Byzantine fortress (abuset entirely destroyed and hardly visible, except with a glass, from the plain of the Aulon) which is situated on a high, bold hill two miles west by north from Fassiller, everlooking the valley of the Aulon and commanding the passages cast towards Konia and south through the valley. Further, it was there pointed out that Misthia and Vasada were adjoining bishoprics, as proved by an incident described in a Letter addressed by Basil to Amphilochies.

The site of Colonia Parlais is fixed on general considerations in B.S.d. 1902-3, p. 261, reinferced by a Latin inscription. In a Roman military read system the crossing of the river where it issues from Lake Karalis was a point of the unmost importance, and as one crosses the modern bridge one notices the remains of a bridge of fine old Roman work under the water close to the modern bridge. Various milestones have been found by Statzett at points in the valley of the Aulon near Gorgorome and Amblada, implying that a Roman road went down the valley of the Aulon.

The further nourse of this Roman road is not as yet proved by any epigraphic discovery. There is a modern bridge over the arm of the lake which extends up into the Aulon, a little way west of Balvklave. 25 a village which lies high on the hill above the glen of the Aulon, and local tradition says that this modern bridge in its marshy situation overlies an older bridge.

Further, a Roman inscription has been found at Avran by Hamilton. in honour of the governor of Galatia, Annius Afrinus, in the time of Claudius. According to the view which I have gradually formed on the probabilities of the evidence generally, such inscriptions were usually orected in commemoration of an actual visit made by the governor to the place; and a visit of Amnina to this southern coast, and probably to a point of historical or religious importance on the southern shore is to be assumed accordingly. This progress of the governor through rather remate parts of southern Galatia must be connected with a very considerable re-organisation of the southern part of the province and of the Taurus frontier generally, which has left its impression in such titles as Cland-Iconium, Claudio-Dorhe, Claudio-Selenceia These titles imply a general recognition in the imperial policy of the definite improvement in the Roman standard of lovally and peace and order along the Taurus frontier of the province Galatia; they mark the cities as loyal to the imperial government and helpful in carrying out its policy. Later about 130, Iconium was elevated to the higher rank of a colonia.

The sites of the Lycaonian bishopric Homanada and of the Pumphysian bishopric Homanada were discussed in J.R.S. 1917, while the remarkable situation of Arvan, in comparison with the character of many other great Anatolian sanctuaries, suggests that here is to be found the old hieratic centre Homana or Komana.

The Orondian mountain region, hilly towards the south mountainous towards the north, but containing even in the south the great peak of Elenkilit, is proved by the authority of Ptolemy, who places among the Oronders the towns of Misthia and Pappa. The site of Pappa was proved conclusively by inscriptions discovered there in 1901 and published by Cronin in J.H.S. 1902. The territory of the Oronders however, extended much further north, for an inscription dedicated to Zeus Oronders has been found on the railway at the village Serai-Inn, four or five miles north-north-west from Ladik and about one mile or more north of the railway line and station of the same name. The site of Zizyma or Zizma is proved in Classical Review, 1905. It was the seat of the Zizimene Mother, whose influence is marked by numerous inscriptions found at Iconium, Ladik, and other places on the north and east of the Orondian mountains. Very extensive muss of canadar (red one of mercury), and perhaps copper, were worked at Zizima, and constitute the gift of the mother to her subjects and

[&]quot;The v is silind in papellar prosumitation.

¹⁰ It may have been carried from Sighm in a glow of the Oronitian committies; but more probably belongs to the Ladik plain, and

indicates that the god of the mountains was reverenced also in the calley. See J. H.S. 1013.

children. The cinnabar has been worked in recent years, but the mines were found to be already pretty nearly exhausted by the great ancient workings. According to my friend Mr. Edwin Whittall there were also copper mines worked in this neighbourhood.

The village of Midan may be regarded as showing the survival of an ancient name, the second element in which was Gdan, the Phrygian word corresponding to the Greek $\chi\theta\omega$ earth, land. It would be out of place to spaculate here about the ferination of this name, which is dependent upon

an unpublished inscription.

Tyrision. This sits is ordinarily identified with the modern village lighin beside the milway station, and was certainly not very far from lighin; but lighin probably preserves in modern form the old village named Algornia, and Tyrision is rather to be looked for at a different point in the same region. There is a remarkably ancient fortification in the narrow pass east of lighin, through which run the railroad and the river. This fortress lies on the hill and is in full view from the railway. It is not in itself the site of Tyrision, but is probably an outlying fortification to defend the territory of that city. Between this narrow pass and the village of Kadin-Khan (three miles south of the milway station of the same name), not far from a Yaila called Keuli-Tolu, is a Hittite inscription on a great embandment, formed apparently to dam up the water that runs down from the Orondian mountains towards the plain and to conserve the rains of the spring for the benefit of the agriculture during the following season.

The line of the western Via Schuste is doubtful Roman milestones occur at intervals along the road which skints the north edge of Hoiran lake: one milliarium marked XI stands in the cemetery below Ganzaa, the modern Gondane; two others are in the cemetery at Genj-Ali, at the north-western end of Hoiran lake. Others occur in the valley of Olu-Borin, and in the pass to Aurokra. This line, however, seems rather unsuitable for the purpose of guarding the Taurus frontier. The main purpose however, of the Via Schaste in this direction probably was to afford the most rapid connection with the three Pismian colonies Kremma, Komama and Olbasa. The only missions bearing the name of the road stands on the site of colonia Komama and bears the number CXXVI, which is evidently measured from Anticch. I have also indicated a conjectural line of road down the Anthros valley possing between the mountains and the lake at Domir Kapu, 'the iron gate,' and round the southern edge of the Limnai." This line is not marked by any milestone as yet discovered, but it would form the most natural and useful route between Antioch and the cities of the Pixidian frontier such as Prostanna, Baris, etc., ending in the three colonies, which it would reach by three separate forks. The site of Prostanna is merely conlectural (see H.G.A.M. p. 407). The earliest reference to Prostama is

Demir Kapa is described by Sterrettine difficult, till a new road was made by bleating the roak. He manthus so traces of an around read, but pressibly rock-nathing (an-

cient) might be distinguished from marks of blasting on along the Cilican Gates matel, if carefully examined.

found in an inscription of Delos recording that the Demos ὁ Προσταεννέων honoured M. Antomus quaestor pro praetore, B.C. 104 (see E.C.H. 1892, p. 155). It is possible that this older form of the name is to be interpreted πρὸς Τάσωνα and to be purhaps identified with Tenia of the Tekmoreian lists. Tenia is doubtless the Atenia of the Notitiae, and the name in

Hierocles, Atmenia, is in all probability an erroneous spelling.

The Via Sebaste which connected the military centre Colonia Caesarea with the Colonia Julia Lustra is marked by one of Angustus's original milestones at Pappa and a group at Selki. It is probable that the road between Selki and Pappa went more directly than is indicated in the map. I have marked the road to Iconium as forking from the Via Sebaste and going south of Lorns-Dagh. The modern road passes through Kizii-Euren and north of Loras-Dagh: this northern route is shorter, but the ascent from the east by a very steep and rough path to the watershed east of Kizil-Euren was a more horse track until comparatively recent time. when Ferid Pasha, the vali of Konis, made a passable road at considerable expense; but the mediaeval road, which was the waggon road from Iconium to the west, followed the Augustan route indicated on the map and was kept in passable order for wheels until about sixty years ago. I was assured by an excellent authority from whom I hired horses and waggons year after year that in his youth this carriage road was used regularly, but it had been allowed to fall into decay in the growing desolation of Iconium. I well remember riding into Konia on my second visit in 1886, coming from the west and thinking us we rode through the streets that we were entering a city of the dead such as is described in the Arabian Nights and such as was the character of Kherson in the early Middle Ages. The revival of Iconium was due to its position on the railway.

There was a fork from the Viss Schasts to Icomum, as is mentioned in the opening of the Acta of Paul and Thekla. It was here that Onesiphores came from Iconium and waited for the Apostle, who (as Onesiphores had been warned in a dream) was going to pass along the Imperial read to Lystra. Onesiphores, seeing Paul on the road to Lystra, induced him to

turn aside to leonium:

The exact line east of Pappa has never been determined or followed, but the geographical character shows what must have been its course through a long narrow pass on the stream. Then there are only two alternatives: sither on the one hand it followed the natural shorter course down the stream which rises about three miles above Smiandes on the watershed and flows down by Bulmaia to Lystra, or it went further east towards Iconium and then after reaching the plain would have to cross the steep raige 500 ft.) between Koma plain and Lystra, which gives a longer and more difficult route. The purpose of Via Sebase was to reach Colonia Lustra, and this purpose is fulfilled best by the route through Bulumia.

In passing a suggestion may be thrown out with regard to the origin of

[&]quot; The name Antonius is rentimed by M. Doublet.

the name Lustra or Lystra. The modern name of the deserted site is Zoldars or Zoldra. This is clearly an ancient name, and not a modern Turkish invention. If the old Lycaonian name was Sultra, the Roman metathesis Lustra would be a change not unnatural owing to the common popular desire for a name which conveyed a meaning in Latin, while the real old Lycaonian word remains in modern usage with slight alteration to the present day. The modern village Khatyn-Serai, the lady's manision, lies between the junction of the two streams, about two miles south-east from the ancient site.

No conclusive proof of a Via Sebaste connecting Colonia Parlais with Colonia Caccarea has been discovered, except the probable Augustan bridge over the river at the ancient site, which has been already mentioned; but if there was a Colonia Augusta Parlais there must have been a Via Sebaste connecting it with the military centre; and the rather confused evidence of the Poutinger Table and the Anon. Ravennas shows that there was a road from Antioch, going on to Isaura and continued through southern Lycanoma across the Cilician Gates to Mopson-Krene. Milestones of uncertain or post-Augustan date occur in considerable numbers on the route.

III.—THE IMPRISONMENT AND ESCAPE OF DOKIMOS (Diod. xix. 16).

The problem of the topography of the Anatolian campaigns in the time of the successors of Alexander the Great is a difficult one. Information is scanty, the names often differ from those which were used in the Roman period, sometimes the names are not even mentioned. Moreover much harm has been done by certain identifications which have been accepted by scholars in general, but which are incorrect; and these false identifications have misled subsequent historical scholars into mistake with regard to the situation of other places.

The basis of all study must be a proper conception of the great lines of roud leading east and west across the peninsula, and the right way of using these for purposes of war or communication or commerce; but some of the accepted identifications are opposed to the very nature and history of the road system. This is, e.g., the case with the battle in which Antigonos defeated an army led by Alketas and other generals, or rather forced them to surrender without a battle in the Pisidican Aulon, 320 B.C. The scene of this battle is placed by all recent historians following Schoonborn, at the head of the narrow and steep ascent per called the ladder from the sea plain of Pamphylia to the plateau east of Ariassos and south of Kremna. I shall not here discuse the details of the battle, which are wholly inconsistent with that locality, while they suit admirably the Aulon, twelve miles west of Pisidian Antioch. It need only be pointed out that the accepted situation for this battle makes Antigonos march from a fortress somewhere in the

^{*} It may fairly be described as a winding 1882, hading my horse: to escend it on rock staircease, a Kinnax. I walked up it in horseback is distinuit.

centre of Cappadocia to this remote point, which is far removed from any road leading east and west, in seven days. The mere measurement on the map shows how utterly impossible it was to march such a distance within that time. Names are given by neither of the principal authorities, Disdards and Polyaenus. The except that the encounter took place in the Pisidican Anion where the western army was encomped and where they were surprised by the rapid advance of the king. It was a marvellous achievement to be able to reach this Aulon in the time described, but to add to the march a further 100 miles leads into the region of the impossible. Diodorus does indeed mention the name Krotopolis, the situation of which has been intered largely from the mistaken idea with regard to this battle, and I have in C. B. Phr. 1. p. 325, accepted this reasoning. I now venture only to suggest a theory with regard to the operations in central Phrygis which resulted from the victory of Antigonos.

Diodorus (xiz. 16) gives an interesting account of the imprisonment of a group of generals, Attales, Polemon, Dokimos, Antipatros and Philotas. who were taken prisoner when the army of Alketas was surprised and forced to surrender in the Pisidican Aulon, 320 n.c. They were shut up under guard in a certain fortress of surpassing strength, which Diodorus omits to name. Such triffes as localities in Anatona were beneath the dignity of his historical style. We might infer from the orecumstances the probability that the fortress was not very remote from the scene of their enpure. This is confirmed by the fact that, in their captivity, they heard that Antigonos with his army was marching to the upper Satrapias: under this phrase. there can be no doubt that the provinces in the east of Anatolia were mentioned. They were therefore in a fortress somewhere in the western or central part of Anntalia and Antigonos after that hasty murch and great victory returned immediately to prosecute the war against Eumenes in Cappadecia and the eastern parts of Anatolia. The captives, who were eight in number, successfed in corrupting their guards; and being men of unusual courage and skill in the use of weapons (as was natural from their campaigns in company with Alexander), they seized the commander of the fortress and threw him over the wall of the rock, which was a stadium in height. This detail aids further in identifying the locality. It may be accepted. Now there are few fortresses which stand on a rock a stadium high, over which a man can be thrown to the ground. Two places only in those districts occur to me as fulfilling the condition. One is the site of the modern Olu-Boriu, the Byzantine Sozopolis, near the Relienistic Apollonia; but the form of the fortress is not suitable. It is a great fortress on a huge scale, consisting of two hills, one higher and one lower, with a marked depression latween them: but the site is too large for the incident described by Diodorus. The captives who succeeded in setting themselves free were only eight in number, and with some friends who had joined them from outside.

^{**} Doomes indeed mentions Kretopolis, of Kretopol but this probably rests on a confusion between "I Compa the battle and the flight of Alketas. The site "same price.

of Kretopolis is uncertain.

[&]quot;I Compare Acts als. I, bearbern "d hear-

expecting something of the kind, the total number was about fifty. Fifty men could not possibly garrison or hold Olu-Borlu. A more confined and narrow fortress must be looked for. As I read the description of the meident by Diodarus, it was not Olu-Borlu that came into my mind, but the great rock of Aflom-Kara-Hissar, three miles N.W. from Prymnesson. This is a natural fortress in height somewhere about 500-600 feet, confined and narrow and with almost precipitous sides, where fifty men could hold aut against an army. They were besieged here by about 3,000 of the adherents of Antigones, but it would take a larger number than 3,000 to sarround Olu-Borlu, while this number could perfectly well blackade and completely cut off the rock of Kara-Hissar.

One of the captives, Dokumos resolved to take advantage of a means of descent which he observed to be unguarded and to go on an embassy to Stratonika, the wife of Antigonos, who was not far distant from the spot (presumably in Kelainei, which was favoured by Antigonos as a residence). At the present day it is understood that there is only one way of climbing the rock of Kara Hissar, a zigzag path which leads up to the mediacyal eastle on the summit; but it would be difficult to find anywhere a rock which does not offer more than one way of descent to an active, skilful, and desperate man, like Dokimos. This descent was left unguarded by the besugers, which implies that it was not known to them or that they looked upon it as impossible and were careless about watching it, concentrating their attention on another way (probably at a totally different part of the rock, where the regular descent and ascent was situated). All this suits Kara-Hissar admirably.

Now we come to one detail as to which I cannot speak so confidently. Dokimos in his descent was accompanied by one man, who probably acted as a guide, because he went first, while Dokimos came after him. When they reached the bottom of the cliff Dokimos burried away and escaped for the moment, but was caught later and thrown into prison. His companion joined the enemy, being perhaps captured by them or else seduced by the bope of reward, and he led up by the same difficult path a considerable body of the besiegers and meccoded in seezing one of the upright rocks. This implies that the summit was not a single point, but contained at least two separate peaks. I have not myself climbed the rock of Kara-Hissir. having always shrunk from the toil and futigue involved in the ascent, which is extremely steep; moreover, I was assured by Sir Charles Wilson who ascended to the castle, that it was mediacyal and showed no trace of ancient fortification. I have, however, never known any rock which in its natural state does not consist of more than one peak or point at the summit, and I conjecture that this was the case with Kara-Hissar (which in the Byzantine time was called Akroenos, and also Nikopolis because it was the scene of the great victory gained in 739 over the Arab army commanded by Seid-ol-Batal-of-Chazi, the first great victory which cheered the reviving Byzantine Empire to stem the tide of Arab conquest).

One other consideration is equally applicable to both places. The

knowledge gained by the captives of the plans and the departure of Antigonos implies that they were probably kept in a fortress near or on one of the great lines of communication running east and west. That suits Olu-Borlu excellently. It also suits Kara-Hissar excellently, for the latter lies at the west entrance on the plain and roadway of Phrygia Parcreios, on one of the greatest lines of communication. Ohe-Borlo has the advantage in one respect that it is closer to the place where Alketas was defeated, viz. the Aulen leading up towards the east from the northern coast of the Limnai; but it is much easier to understand how eight captives on the Kara-Hissar rock could learn what was taking place, and (in the slipshod eastern method of imprisonment) were able to concert a sudden attack on the garrison of the summit, which could not be large. On the contrary, eight men could not contend with the necessarily large garrison of Olu-Borlu, but if they had weapons and were personally so skilful in the use of them as Diodorus describes, there is no impossibility in their being able to overpower by a sudden attack the small number of men who would be in garrison on the summit of Kara-Hissar.

While I cannot speak from personal knowledge about the summit of the rock of Kara-Hissar it is easy to say with definite certainty that the description given by Diodorus as a whole does not suggest Olu-Borlu and is applicable only in a very rough fashion to that great and large fortress. A difficulty there would also in in the one unknown and unguarded descent, because it is practicable and even easy to descend from Olu-Borlu almost everywhere except at one great precipice.

As a coincidence I would add that I asked Professor A. W. Mair of Edinburgh to read the passage and form his own conclusions as to the situation described. He sent me a letter with a sketch of the shape that he imagined for the fortress, judging of course only from the words of Diodorus with no other evidence or authority; and the sketch which he drew corresponds most remarkably with the aspect of the rock of Kara-Hissar, with the winding path leading to the top. Any person who has travelled a great deal throughout Anatolia and observed the many fortresses of all periods would at once recognise this sketch as being the rock of Akroenos. It is a remarkable face in regard to the numberless rocks which protrade through the level plateau sometimes as lefty mountains, sometimes as little peaks, that every one has its distinctive features and character and is easily recognizable on the journey at a great distance, or in a photograph, or even in a drawing.

Diodans does not mention the name of this fortress, but his description suggests that it was (as we have assumed throughout) pre-summent as a stronghold: i.e., it is Acoproxédalou, spoken of by Appian, Mithr. 19, as Couplas oxuporarou xopion. It was pointed out by G. Hirschfeld, Berl. Phil. Work, 1891, p. 1886 f. that Leomokephalon must be the great rock of Afrom-Kara-Hissar: he was followed by Radet in his book En Phrygis, 1895,

[&]quot; Phitarch, Them, 30, has the form Asserver argant. The place is unlitted from H.G.A.M.

p. 45; and the phrase used by Appian seems conclusive to one who looks at

Phrygis with forty years' experience.

Radet, loc. cit., p. 123, discusses also the position of the hot springs at Leontos-Kome in Phrygia (H.G.A.M., p. 143). There are two hot springs in the great plain of Aflom-Kara-Hissar, which geographers generally call Caystropedion. One is situated near the N.W. angle, and one towards the S.E. of the plain (towards Yem-kem). They are the only two important hot springs in the large valley, and I left the choice open between the two. Radet is not satisfied with either situation, but places Lecatos-Kome at a village called Kara-Arslan (Black Lion). Here, as he says, Tchihatcheff mentions hot springs, and he argues that the name Black Lion, which is used by the modern Turk, is merely a translation of the Greek Leontos-Kome. We visited Kara Arslan in 1884. There are no hot springs there: Tchihatcheff spoke of the springs towards Yeni-keni, and his meaning is clear. Kara-Arslan is a Tchiftlik, or estate, the property of the noble family in which the headship of the Meylevi dervishes is hereditary. Similarly, close to Konin, on S.S.E., there is a large estate called Kara-Arslan, which also is the property of the Mevlevi. The modern name has no relation to ancient facts, but means the Black or Dread Lion " of the Seljuks. The Mevievi dervishes go back to the old Seljuk Sultanate of Koma (Rum).

Kara-Arsian, therefore, gives no evidence about the hot springs of Leontos-Kome ⁵⁶; but perhaps an analysis of the water of the two above-mentioned springs would give certainty (H.G.A.M., loc. cit.); for Athenaeus describes the water of Leontos-Kome as having a marked chemical character. Both the two hot springs of the great valley are in frequent use at the present day as curative baths. Personally, I should identify Leontos-Kome with the springs in the N.W. of the valley. It was not possible for me to enter the bath-house (which seemed to have some interesting features) because it chanced that our visit coincided with a day when the baths are entirely given up to women visitors. Lady Ramsay was, however, allowed to go into the building and to make a copy of an inscription insade the bath chamber.

Radet's view is justified that modern Turkish names are sometimes the translation of the ancient Greek or Phrygian names, but this example shows that he is disposed to carry the principle too far. He is also right in holding that the Turkish name of many places is merely an attempt to pronounce the

The word Kare has often a moral significause: the struggest sum in a village wrotten sailed Kare Muniafe, Kure Ahmed, or so one:

[&]quot;The raining Movines family is conceived to be a representative of the Saljuk Salama; the shier of the Meebers jontitled Tobulch Effendit, whose palace is at Kenia, girls the swood on the Oseanid Sulain; and the theory is that the Oseanid Sulains are not completely invested with the power of the Sultanute until the word has been girded on by

the Tehrielsi. This occanion was performed things revived after diams) in 1909 for the benefit of Mehmot V., when the intention was to mark by every old accessors the lam at the investiture while his predecessor Abilini Hamid was still above.

[&]quot;They are about six miles or more from Kara-Arelan, and lie on the direct road Kara-Hissar to Tohat. Kara-Arelan is on the road to Symmula (as Radel rightly says).

ald Phrygian or Greek name; but (as in the other case) he sometimes curries the principle too fac. E.g., on the preceding page of his En Phrygre he identifies Ghienkiljeler with the late Byzantine hishopric Gajoncome on account of the similarity in sound. Names of the type of Genkoheler are so common in Anatolia as to deprive this not very striking similarity of any real force; Genk in the pessants speech means bine; Genkoheler means bluich; and Genkoheler is the same word with the plural termination "ber theked on. No stress can be faid on such slight similarities as this.

It is probable that a village mentioned by Leo Diacoms, Cedremis, Symson Magister and Leo Grammations in various forms, 'Online're or in rustic speech l'alliera, l'onliera, l'onliera, l'onliera, le to be identified with the Greek Leontos Kome, the Phrygian and the Greek form of the name. The Phrygian word indicating town or village or sottlement was "oua." Own is probably nearer to the Anatolian word, which is perhaps older than the Phrygian compact. It seems not impossible that the term "oba" used by the Turkmen and other nomads on the great central plains is the old Anatolian term. Leo Diacomus refers to the difficulty of catching the right pronunciation of this name, and the use of 'g' in Greek pronunciation and spelling was one of the many devices for representing the Anatolian w' in Greek.

W. M. Ramsay:

¹⁴ H.O.A.M. p. 1421. In the nimal Byrac-

ower of the disaster that Laon Phokes experioused here 020 a.u., yes Marron

THE SUBJECT OF THE LUDOVISI AND BOSTON RELIEFS.

PLATE VA

As unsolved problem has a populiar fascination in archaeology as elsewhere. It compels our interest, and we come back to it again and again to try and find a solution. The Ludovisi and Boston Reliefs have presented as with many such puzzlas and have consequently been the subject of much discussion. The two most important publications of these monuments—Studniczka's in the Jahrbuch des deutschen archaeologischen Instituts 1911, pp. 50-192, and Caskey's in the American Journal of Archaeology. 1918 pp. 101 ff—have dealt at length with the numerous points involved and many of these have now been satisfactority solved. The identification of the subjects represented on the reliefs, however, especially of those in Boston, is still only tenative. As Mr. Caskey says, none of the numerous attempts to interpret the reliefs has met with unqualified acceptance. To the many explanations which have been advanced I am going to add still another, which to me at least seems the simplest the most natural, and for that reason the most probable.

Let us review briefly the situation as it stands at present and the general conclusions at which we have arrived. With almost complete manimity the monuments are now assigned to the period transitional between the ambaic and the fully developed—the time of Polygnotos and the Olympia pediments. The purpose of the reliefs is not quite certain. The similarity of their form and style suggests that they were either pendants or parts of the same monument, and that they must therefore be interpreted in relation to each other. The most probable theory, and the one which has found most adherents is that they were screens of an altar. With regard to the subjects represented, the central portion of the Endovisi relief is now fairly generally accepted as representing the goldess Aphrodite rising out of the sea with two attendant Horai—a beautiful translation in plastic form of the well-known passage in the Homeric hymn to Aphrodite (VI. 3-6)

... άθε μεν Ζεφύρου μένος έγρου άξντος ήνεικεν κατά κύμα πολυφλοίσβοιο θαλάσσης άφηφ ένε μαλακώ την δε χρυσαμπυκές (Ιραι δέξαντ άσπασίως, περί δ' άμβροτα είματα έγσαν

Plate V. is represented from Studentzka s. Hence by E. A. Gardner in J.H.S. 22341. hence plate in Judenuch 2331. (1911), Tal. I. +1913), Pil. III.-VI. Photographs of atill larger scale were pub-

There in Cyprus) the moist breath of the western wind waited her over the waves of the loud-mouning sea in soft foam, and there the gold-filleted Hours welcomed her joyonsly and clothed her with heavenly garments' (tr. Evelyn-White). Though we have no strict parallel in contemporary art, we know that the subject (sometimes treated rather differently, however) was used on important monuments such as on the pedestal of the status of Zeus at Olympia by Pheidian. The other interpretations suggested—Pandora, Kore or Ge rising out of the earth, a fountain nymph rising from the sea, a woman in childbirth—have never had

a large following and have now been practically abandoned.

The subject of the Boston companion piece has proved more difficult. The central figure on the middle portion is clearly Eros, and he is weighing diminutive figures of men before two women; where the scale is heavy the woman is joyful, where it is light she is in distress. So much is clear; but who are the actors in the drama? Are they mythological figures or human beings! The chief interpretations so far given are (1) The Psychostasia or weighing of the souls of heroes, either Achilles and Haktor or Achilles and Memmon.4 (2) Eros, the great primeval divinity, weighing out to two wives the assurance of lineage, (3) The settlement of the dispute between Aplandite and Persephone for Adonis. Of these the last, first advanced by Studinicaka, has become the most favoured. Caskey calls it the only acceptable interpretation of the scene yet proposed. But though acceptable it has not been unreservedly accepted; for it has failed to be convincing. There are moreover, certain considerations which uppear to me to speak definitely against it. We have no conclusive evidence that the myth of the dispute between Persephone and Aphrodite for Adonis is earlier than the fourth century a.c. In literature our chief source is Apollodorus (early Imperial period) in his Bibliotheco, III, 14, 4 who relates it as follows; 'While he (Adoms) was still an infant, Aphrodite, without the knowledge of the gods. took him because of his beauty, and hiding him in a chest, gave him into the charge of Persephone: but when Persephone saw him she would not give him back. A trial was hold in the presence of Zeus; and by his decision the year was divided into different parts, during one of which Adonis might be by himself, in the second with Persephone, and the third with Aphrodite. But Adonis gave Aphrodite his own share also. Later, while hunting he was wounded by a hoar and died." Some commentators think that Apollodorus derived this myth from Panyasis (early fifth century, u.c.); but Apollodorus quotes Panyasis as an authority only for the theory that Adonis was the son of Thomas and Smyrna as against Hesiod's testimony that he was the son of Phoinix and Alphesiboia. To attribute his whole subsequent

C.I. Panandas's Description of Greece, v. 11, 8: and after Hestin there is Leve receiving Aphredite at the rise from the sea and Permanion's growning Aphredite (i.e. Frazer)

Cf. the documion of these thereine in Stadmicks, so est pp. 101 ft.

^{*} For a discussion of these various theories of Studmonks's and Caskey's publications referred to above.

¹ Chiop oil pp. 141 ff.

b Ch also Hyginas, Airconomica, H. 7.

story to Panyasis is quite arbitrary; Studniezka himself regarded such a source as 'at least uncertain," while Dinumler in Pauly-Wissowa's Resilencyklopaidie, Adoms, p. 393, thinks the myth can certainly not be earlier than the fourth century RCS At all events, none of the earlier writers have any allusion to this myth. In sixth and fifth-century literature? Adonis figures as the favorite of Aphrodite, who was killed by a wild boar while hunting, but who, to assuage the greef of Aphrodite,10 was allowed to spend half of the year with her on earth, while the other half he spent in the lower regions with Persephone. The legend was said to have been derived from the East and appears to be symbolical of the death of nature in winter and its revival in spring. Hence Adonis's death and his return to life were colabrated in annual festivals. It is easy to see how in later times this original legend would be aftered to Apollodorus's version with its more reasonal and anecdotal elements. That the incident of the death of Adenia while bear hunting was retained in spite of the contradiction it involved is characteristic of such later perversions:

When we pass from interature to art, we find that the subject of the dispute of Persephone and Aphrodite for Adonis likewise does not appear on sixth and fifth century monuments. The only monuments which can be interpreted as referring to it are a Prachests mirror 11 and one, possibly two, Apulian vasce 12

But even if we suppose that the story was known at the time that the Boston reliefs were made, that is, about 460 nc., and that by accident we have lost both literary alianous and contemporary artistic representations, even so it would be difficult to my mind to read the Adonis legend into the Boston relief. Zens is the arbiter of the dispute. He appears as such on the Praeueste mirror and the Apulian vases. And if not Zens we expect to find an accredited representative in his place. Thus, though Homer speaks of Zens weighing the souls of Achilles and Hektor on golden scales ¹⁴ and in the Psychostosia of Aeschylus we hear of Zens weighing the souls of Achilles and Memnon. In vase paintings representing this subject it is Hermes who holds the balance—Hermes, the messenger of the gods, sent by Zens on all manner of missions. In and also the conductor of souls to the lower regions. And in

^{*} Cf. op. cit. p. 141; * weshalb den ganzen Beriald auf diesen Epiker ansückraführen unalestens meioher ist.

Sie bliese Sage) het nicht echte Mysterienunge , eindern spare Dichtung Rol Panyasin stand sie jedeufralle nicht; allem Arashein nach lat es die Lesung welche ein Deur ex machina (Zeus, Aphrodite, Kalhopol sioom Drama das sich vormehmlich mit dem Solcieksal des Kinyras und der Myrrha beseitstfügte, gab; also nicht ülter als das 4. Jahrhundert.

Ct. Sapplie 62 (128), Arisisphaues, Lysis ivito, 287 ff.: Praxilla, Bergh L.

[&]quot;This greet is vividly described by Blon

⁽third century u.e.) in his idyll, The Lamont for Adonis, Idylla, i.

¹¹ Cf. Monumenti dell' Instituto, vi. 24, 1, and Gerianal, Air. Spangel, iv. 525.

^{**} Cf. Rallettian archeologics as politicana, a.z. vii. 9, and perhaps Men. d. Ital. vi. 1860. Pl. 42 s know in the Matropolitan Massaum of Art. New York, No. 11, 210-3; see Massaum Bulletin, May 1912, pp. 95-96, Fig. 21.

in See refrequess quoted above.

⁴⁴ Hind. vxii. 200-213.

[&]quot; Vrag. 378 (from Plut, Moralia, (7-x).

in Cl. e.g. Houser, Colyssey, t. 35 ff. and t.

¹³ Ch. s.y. Homer, Odymey, xxiv., I.

a different version of the Adonis dispute (Hyginus, Astronomica, II, 7). Zeus appoints Calliope, the mother of Orpheus, to act as arbiter between the goddesses. But who is Eros? He is no representative of Zeus but the child and follower of Aphrodite. As such, at least, he appears regularly in post-Homeric literature is and in art. How could be then have been chosen an impartial judge to decide a dispute between his mother and Persephone. Persephone would never have consented to such a partisan transaction, and

no Greek would have thought it fair.

The difficulties do not end here: Studniczka himself 20 points out that it may appear strange that the figure of Adonis on the weights of the scales is that of a full grown youth instead of a child, as the story relates. On the Priemeste mirror and on one of the Applian vases 31 Adonis appears as a child, either inside a small chast or standing beside Zeus. When Studniczka appeals to the testimony of ancient authors that Adonis was a full grown man when he descended to Persephone he forgets that these writers evidently follow the version of the legend according to which Atlants died in youth, killed by a boar, and was thereafter shared by Aphrodite and Persephone. Furthermore, according to the story of the dispute, the judgment pronounced was that Aphrodite and Pursephone should share Adonis on equal terms. Only afterwards did Adonis decide to stay his own third of the year also with Aphrodite. Why, therefore, should the scales weigh heavier for Aphrodite and she be exultant and Persephone mournful? The Greeks were fairly literal in such matters, nor do we find any such display of feelings on the other representations of the dispute-only signs of wrangling and entreaty. In fact we may recall here the reception given by Aphrodite to the decision as told by Hyginus (op. cd.) where Calliope, mother of Orpheus, is appointed judge of the dispute by Zeus and decrees that each of the goddlesses should have Adoms for a half of the year; Aphrodite, however, was angry because he was not given to her for her own, and caused all the women of Thrace to fall in love with Orpheus and each to neek him for herself so that he was torn to pieces. This is not an attitude of joy and triungel.

More important, however, than such details is another consideration. Supposing the Boston and Ladovisi reliefs are indeed screens of an alter, or at least parts of the same monument, may we not presume that this alter or monument was sucred to Aphrodite. For it is the birth of the

* Op. of p. 149 L

= CL op cit p 142

²⁸ Ct. s.g. Aleman, 28 a 126); Sapphofegts 117 and 74; Ibykon, i. 6 ff and ii.; Simunites 43; Kariphiles, Himpolytes 529 f. At the time of Hesioti Rowever, Erossums to have been regarded as a primaral god, profinest at the same time as Class and Earth (Musoff, Theology, 120 f.).

^{19 (%} tos approximately confemporary regressubitions a transmitta relief from South Haly, Assar's Self Inst. 1867 p. (= Reschor's Lucism, p. 1452); a terranette relief from

Accina, Manuscan dall Pasterio I IS (= Denkmider antiker Kansi, i. 53), and others mentioned by Furtwangler in Reschar's Legiton Eros. p. 1351 ff.

Of the other (the mount the Metropolites Museum) Admis is not present, house the miorprotestion of the scene as the dispute of Aphredite and Persephone is uncertain.

foam-bern goddess which is shown on one of the two principal sides. We may reasonably expect therefore, the rest of the relief to represent subjects to direct and vital relation to the cult of that goddess. Is it likely then that the artist chose, as a pendant to the birth of the goddess, the myth of her dispute with Persephone over Adonis-which at best, was an obscure; littleknown legend at that time ! Let us take the parallel of the Parthenon. Here, in a manument sacred to Athena, we have represented on one pediment the miraculous birth of the goddess, on the other the settlement of her dominion over Athens-both incidents of great importance and of popular knowledge. An equally appropriate scheme was chosen, I think, for the 'altar' of Aphrodite. Aphrodite was the goddess of Love. A Homeric Hymn (V) speaks of her as "Aphrodite the Cyprian, who stirs up sweet passion in the gods and subdues the tribes of mortal men.' Euripides describes her as the that sows love, gives increase thereof, whereof all we that dwell on earth are sprong (Hippolytus, 449). As the goddess of Lave, Aphrodite's chief function becomes the beatowal of the gifts of beauty, charm and persuasion that arouse love,22 the granting of a happy marriage. And the giving of offspring. And she can either bestow these gifts or she can withhold them. It is in this character of bestower or

Ct. s.v. Honors, Right, 219, 214 d., where Aphrodite gives to Them her girifle. 'fair-wrought, wherein see all her productionants; therein are love and theire, and loving converse, that iteals the wite even of the wise, and adds 'monthing thou will not renorm with that mannounplished which is they bear the distinct mannounplished which is they bear the distinct,' and the numerous priescopes given by fortunagem to Rambur a Lexisten, 'Aphrodite, 400, and do Farmell, Cults of the these States, p. 750, note (10)

Att. op. Parmanian, x. 35, 42 ° Ar Kanpaktor : Aphrodits to weightpped is a gratto. People pray to her for various review and, above all, without sal. the goldess for husbands.

Paneaux, is 24, 11 (Various horours are point to the godden of this temple is a la Aphendite) by the Hurminishine. Amongst others, it is the matter that every must and very white the is about to a stall disconnict here before bettierings (tr. Fraces).

Pansamas, iii 13, 9. There is in Laguain; as ancient weaden these called aphresination for a mother, it the marrange of his daughter, to marrange to the guidance.

House, Ried, v. 120: but tellow thou after the loving took of wellke k' (Zeus speaking to Aphrosite)

Assenting Kees in: There was a pro-

movely nurried tools part in the featural.

Grack Authology, Destinatory Epigrams, 207,

Archies: Aphrodite, who president over

weekings

Of Pastenia, J. 14, 7. The Cyberian learnt the worship of Aphrodite Ournal, from the Phombian. Asgene introduced it into Athena Jeening his children, and the misfortune of his surgan were disc to the wrath of the Harranty Goddess.

"Nair the Hymettes was a shrim of Aphroduc with a spring the water of which makes funtful the weaters who drink from it, and the childless become capable of bearing children (Photons and Sudan makes Kalken it.)

Suphocine ap. Phir. Moralin. 756 a, openie of Apirculitum According absorber (fortificing). Europeites, Hippolotus, \$40 (quased absorber).

Artennicione. Omerotrician, IL chap. 49 reel barolerme. She is appointly good for bringing about marriages and partnerships, and in the high of children, for the in the cause of misons and of officients.

Of also the references queen by Farnell, Calle of the torse States, it p. 750; note 118. The Oriental Aphrodita was of course principally a goldless of facility of Fastwangler in Residen, Levilon, "Aphrodita," p. 390 ff.), and it is interesting in this commentary to remainly the undoubted feets influence to the Ladician and Baston religie.

withholder of her bounties that the goddess, to my mind, appears on the Boston relief. To one woman she gives her heart's desire—be it husband, or lover, or man-child; to the other she denies it. Where she grants there is rejoicing, where she refuses there is sorrow. The symbol of the balance was a natural one to the Greek mind, as we see not only in the scenes of the Psychostasia (weighing of souls) already referred to. but in the well-known representation—more closely allied in subject—of the weighing of small firetes on an Apulian vase in the British Museum. Aphrodite herself does not do the actual weighing in our relief, but her representative Eros—just as Hermes takes the place of Zeus in the scenes of the Psychostasia. Eros in this character of the executor of Aphrodite's will is of course familiar.

This interpretation of the Boston relief comes fairly near to Marshall's explanation, 25 quoted above, that Eros, the great primeral divinity, is weighing out to two wives the assurance of lineage . . , the continuance of the family in the male line by a grown-up son. But to my mind Eros is only Approdite's executor 26 , it is the power of Approdite that is the real theme. So, while Marshall's theory rested largely on the interpretation of the Ludovisi relief as a woman in the act of child-birth, and fell with the rejection of the latter, 21 the new interpretation is based on the more probable identification of the Ludovisi relief as the birth of Aphrodite.

The underlying idea in this interpretation—the gods giving their gifts to mortals or taking them away at their own good pleasure, and the quiet joy and restrained grief with which button beings accept their fate—is thereography Greek. All through Greek literature we feel the vivid recognition of the power of accepts. Necessity. The fate given by the gods I must bear, being mortal 'vax yap is been arrays as depton own del depen, says Oedipus 32 when calamity after calamity has befullen him; and this is the philosophy of every enlightened Greek. It would be difficult to imagine a more beautiful portrayal of the idea than that in the Boston relief—Eros smiling quietly in the impersonal manner of the immortals, as he settles the fate of the two women; and the latter, one the personification of joy, the other of sorrow, but both accepting the decision in the unquestioning way that mortals must. The idea is elemental and could only be adequately conveyed in a simple direct treatment, such as that chosen by the Greek sculptor. 34

^{**} Ci. Studulozka, op. oż. pp. 131 ff., who gives several illustrations of such scenes.

Walters, Catalogue, F 220, and Stad blacks, op est pp. 130 f.

CL e ye references given ou p. 7, note 0, and p. 8, and 1;

^{**} Cf. Revisigion Magazine, vvii. July, 1910, no. 247 d.

This is also niers in harmony with contemporary ideas: Eros as a primavel divinity is an earlier someption (see p. 7, note 6).

is Cl. Caskey, on cit is 100 . And if it he

rejected. Marshall's hunginative interpretabon of the same on the Beaton relief small fall with it.

[&]quot; (I. Euripides, Phoenisson, 1760;

³⁸ Cl. e.p. Assemblue, Prometheus, 183 H. and 514 H.; Sophooles, Fragments, 224 h.; Simonales, 19 ff.; Herodotus I. 31 = Authoropy, xiv. 80.

is it might be arged that such a personification of an abstract thought is only known in later Greek art. But this is not so. It is true that the status of Rivers and Planton

How thes this new interpretation affect the identity of the scated figures on the side reliefs? Though they can no longer be actors in the Adon's story, as Studniczka tried to explain them, they remain what most commentators have already seen in them, 'types of worshippers of the divinity in whose shrine the monuments were erected." If we now assume that this divinity was Aphrodite; they become followers of Aphrodite-which is indeed the explanation definitely given by Caskey and others of the figures of the flute playing girl and the woman burning incense, and more tentatively of the old woman and of the boy playing the lyre. Only now these votaries assume an appropriate place in the scheme of the whole monument. For, again, we are reminded of the Parthenon sculptures, where on the pediments are representations relating directly to Athena, while on the frieze is a long procession of her votaries celebrating her chief festival In a humbler and less complete fashion the side figures of the Boston and Ludovin reliefs represent the different followers of Aphrodite. The incensorbarning woman and the flute-player have been quickly recognized as a married woman and a courtesan. Incense and music are, of course, appropriate forms of worship in Greece, also in special reference to Aphrodite.18 Likewise the young boy playing the lyre is probably just what he appearsa young votary making music in honour of the goddess. The significance of the old woman is less obvious. It is youth, not old age, that we generally associate with the goddless of Love. Caskey's ingenious interpretation of her as la helle Heaulmière grown old and thinking regretfully of her past. 27 seems to me more French than Greek in spirit. It is a subject that appealed to Rodin, but is it not a little too moralizing for a fifth-century Greek? Villon; not a Greek author, has had to furnish the description. It is difficult, one must admit, to find a convincing interpretation, especially as the object the old woman held-which might have given us the class-has been chiselled away. But there are several possibilities which suggest themselves. We know that it was mistomary in Greece to have female slaves attached to temples. We have a description of these lepodouxor in Philarch, Moralia, 557 b, who quotes perhaps from the Hiomporesis of Arctimes: 'And they without upper garment and with feet bare in the inshion of slaves in the morning aweep around the alter of Athena, without veils, even if grievous old age has come upon them. Strabo, 272, speaks of

symbolizing Feaur and wealth is generally multavonni un en chilgolomidoja ed bankaliga in threek art, "characteristic of the new tendenous or the period.! But we all know that we have such per malifications on Groule vaces at a much melior period - me, for metance, the well known Justine and Injustine contest on an early rad figured vace (Reinsch, Esperioire des l'ages Peinte, L'p. 353).

the golding bears of fre-by franklingers, full often coaring appeard in your couls unto Aphrodice, the heavenly mother of Lorent (tr. Sandya). For more we may recall the many flute playing and lyre-playing wellve ngures found in manutuaries of Aphinalite in Cygrus (at. vy. Ohmsfalich-Richter, Kypros, Pl. zvii. 5, and Myres and Chnefalsch-Richter, Catalogue of the Cyprus Manager, Nos. 5502 8903, 5674, 3710-5715p

^{**} Ct. Cankey, op. cit. p. 113.

** For barning income we may quote Pindar's Enlegy, 122 (57): 'Ye that barn

[&]quot; Cf. Chekey, op. cit. p. 116.

a temple of Aphrodite which in ancient times was full of female slaves of the goddess whom the Sicilians offered as fulfilment of your, and many also from other places. The old woman on the Boston relief might well have been such a temple slave grown old in the service of the goddess. Her general aspect—short hair, simple Doric chiton, and unclassical features would be appropriate

Another possibility is that she represents a roodox or nurse, who, by her association with children and young girls about to be married compares a matural place in the cuit of Aphrodita. Such old nurses occur in contemporary art and our old woman bears a striking resemblance to thom. Petersen's suggestion that she is a midwife would in this connection be quite possible, though it seems unnecessary to narrow her profession to that calling. At all events, whatever the special significance of the Boston old woman actually was, she can well have been some votary in the cult of Aphrodite, for in Greek thought her age was no bar for such a part.

In the Boston ratiofs the architectural ornaments at the bottom are still preserved and in each of the four corners is carved an emblem—two fishes and two pomegranates. The fish is, of course, an obvious symbol of the sea born goddess and has been so interpreted. The pomegranate, on the other hand, has been associated with Persephone by the exponents of the Adoma theory as a fruit sacred to the Chihaman divinities, and has also been brought in connection with Helate-Arterias. Marshall proposed that both the fish and the pomegranate had no direct reference to the figures above them, but were either emblems suggesting that the ritim of the altar resembled in certain particulars that observed at Eleusis, 44 or were merely decorative. If the monument was indeed sacred to Aphrodite, as we now assume both emblems must of necessity be related to that goddess. As a matter of fact, both are attributes of Aphrodite, and, what makes them still

Ac shales, Characharet, 743 ft. We may have recall also the generous Tanagra statements of all successoring milities.

^{*} Atministra Epist 10,

^{*} Of especially the Gerupes on the Pisinxenue kylix in Schwerin (Hartwig, Meleterscholes, p. 270); also other references given by Studniczkia, op. cd. p. 150.

[&]quot; Ch. Com miles Ross", p. 142

[&]quot;Identified variously as two red mullers (Rev. Arch xvii. 1911, 152), and us a red muller and a gray mullet (Stanfaioska, e); eif p. 131).

^{*} Ch. Studmenka, op. cii. p. 141.

⁴⁴ L'S. Marshalli, Ractingram Wagazine, 1910, p. 230.

⁴⁰ Cr. Marshall, Rosse Archiologique, veli-

For fish, of Athen vi. 22 1 (Gre don-

vii. 225 s. 284 r. Hygines, Fabular, 197, also Keller, duille Tieredt, ii. p. 346; Furtwanging in Rischus's Lexiber, 'Aphrodite,' p. 385.

For pamagraphics of Athens in 84; who. qualing from the could posts Ashtophianns and Eriphon, ages that Aphrodite plainted the to of alta blanting by more commentators as the panugranate) in Cyprise; we also misof Ofensias on Philintzwine, Fire Aport Tyan, t, 28, in 188 f. The peregunate occurs strong the vertee afterings found in a terminor of Aphrodita in Cyprus Offmelalach Kiehtee. Kypres, p. 78; Aphredits tolding the pomegramate blussom appears an a Learnin rellief (Farnell, Cube of the Greek States, u. 19. XLVIII), and in a terra-totta seasuatte Westwell, disademarks didmendanger, Pf. XXX 4, quoted by Furnell, op. cit. II. p. 607). Cf on this subject also Roschur Limition, "Aphrodite," p. 1903.

more significant both are symbols of fertility." So that their pressure on this monument which celebrates the function of Aphrodite as the goldess of

marriage and offspring is singularly appropriate.

To sum up If the Ludovisi and Boston reliefs are indeed pendants. that is, if they were parts of the same monument—as is indicated by the similarity of their form and style-then the subjects of the reliefs must also he closely connected, as probably relating to a single theme. The identification of the Ladovist relief as the hirth of Aphrodite suggests that this theme is one celebrating the works and the call of that goddess. interpretation of the Boston relief as emblematic of the power of Aphroditaever love and life carries on this theme in a natural and harmonious manner and makes the relief an appropriate pendant to the Ludovisi monument The figures on the wings can then be fittingly explained as votaries of Approdite and the emblems in the architectural ernaments as significant attributes of Aphrodite. The whole monument becomes a consistent whole, We have it is true, no exact parallel in contemporary art for our new interpretation of the Boston relief , but for the identification of the Ladovisa relief as the birth of Aphrodite we likewise lack the support of similar, Illustrations. What is much more important in this case, the underlying idea and the method of representation, are thoroughly threek in spirit, and in harmony with the prevalent conceptions of the period.

GISSIA M. A. RICHTER

Witness than Marrier of Art.

The field through its power of caput propagarnan tel, ti, Kallar, Antale Thereoft, il. p. 345; Engel Asyone, it is 101; the promogrounds, on account of its many weeds aftendnicela, op or pe ille, uniter Armoleus aris, grat, 5; thank 12 is this connection, who talks of Num conceiving Attic by the mere teach of this fruit; It also Farmall, Culti of the Greek Sintes, H. p. 1007, into ; Bandindly, South . z. emeriech. Geograppenhiche, al pp. 208:113 Schwelghulow, mide in Athanaeue til p. 815 Studnicale objection (on sit p. 138) that a symbol of fertility should not be placed beare the time with the regard for offering is refused does not hold in this case, since the symbol relates to Appromite's power; for otherwise why should it be expeated beneath the lyre-player? We objection to the anulat ergiging becould the other women as an annual unique off, underourable to the burring of shifting (Athenson) 3 325 a and of can

harly he takes personly. Attenuages theory is based as a fletitions derication of the place name Triyan from spirits, set that we have no evaluate that the heliaf eras bold in the fifth conting and; on the continer, Artemideen the 14, brong the (abignotion on carller writers mays. "The mullet is great for chaliffers rooming, for it him young these trines, whose Arciotla in his History of Animale and Aristophianes in his Commentaries say with probability that its name is dirived. It Laurerer by me to an earthin thurshe fish should be thentilled as mullets. The sight ---addingeries mays done in Professor Bankford Beng, of this Meaning one of the lieuter parts on this subject in the country, tells me that be thanks it is more probably the combine carps that is represented which all goes to show that it is sharperous to him hisportant chrocus on brilles.

Postscript.

When I wrote the above I had not read W. Khan's article in Jahrouch. 1916, p. 231, 'Das falsolie Bostoner Gegenstück, which on account of war conditions, only recently reached America. Klein makes three contentions which call for brief mention here as affecting my interpretation: (1) That since the Ludovisi and Boston reliefs vary in measurements they could not have belonged to the same monument. (2) That the subject of the Ludovisi relief represents a woman in childbirth. (3) That the Boston relief is a modern forgery.

The forgery theory was advanced-though a little more tentatively-by Ernest Gardner in J.H.S., 1913, pp. 73 ff. It was answered by R. Norton in J.H.S., 1914, pp. 66 ff., and has also been dealt with by Caskey in his publication of the monuments in A.J.A., 1918, pp. 126 ff. Caskey had not then seen Klein's article, but several of Klein's difficulties, such as the treatment of the hands the drapery, the cushions, the architectural motives, are there discussed, so that further comment seems unnecessary. Klein's curious objections to the nudity of the lyre-player, to the resemblance of the lyre-player to Myron's Diskubolos, to the mourning woman as a veritable Jammergestalt, to the position of Eros left hand, will be shared by few students of fifth century art and need not concern us here. It is easy to lose enesalf in specific details and to set up arbitrary rules and standards which we think Greek artists should have strictly followed even at the period of their most adventurous experimentation. It is much more difficult to believe that a modern forger could become so steeped in the Greek spirit that he could model the human body, represent drapery, and compose like a Greek. Quite apart from the question of artistic merit (since an appreciation of that is it would seem a matter of individual taste, we should remember that the modern forger has a very different psychology from that imputed to him by Klein, as anyone who has had extensive experience with pseudo-Greek works knows. He has not that elaborate archaeological background and accurate knowledge of styles and periods that Klein himself must presuppose for the sculptor of the Boston reliefs. And if there is anyone who can produce so consistent a whole as the Boston monument, where are his other works /

With regard to Klein's argument regarding the variations in the measurements at will be seen by Caskey's table (op. cit. p. 102) that these are really small; as Caskey says, the comparatively slight variation between the two monuments in the width of the front at the top, and in the height at the ends and at the apex of the gable, can be reasonably explained as due to differences in the composition of the reliefs. Greek architecture is full at such variations and irregularities (cf. cg. Goodyear, Greek Refinements,

THE SUBJECT OF THE LUDOVISI AND BOSTON RELIEFS 128

pp. 161 ff.; in fact, any artist would consider the domands of his composition more important than mechanical accuracy.

Of Klain's objections to the interpretation of the fudovisi relief as the birth of Aphrodite, the only serious one is perhaps the absence of any indication of water; for few will see with him an expression of pain in the radiant face of Aphrodite, or object to the presence of two helping maidens. But to most minds trained in G reck conceptions, the public, sloped ground suggests water as easily as a column on a vase suggests a house or a flower a meadow, or a chair an indoor scene. Such shorthand method of expression is characteristically Greek; but what appears to me essentially not fireck is to introduce a stony slope in a childbirth scene where it is not wanted, merely because it helps the lines of the composition, as Klein would have us helieve.

O. M. A. R.

elight depth of the collect the first that it is kept all in one plane, and the addition of the architectural organization in separate place all points in which the Ladovici measurant water from the Boston one, where no such tempty of muchle was necessary.

I Mr. William B. Innamor engossts that the variation of measurements in the two monamous is due primarily to the difference in size of the two respective blocks of marble. The one which surved for the Langovial reliefs was appropriate modifier, so that the analyter and to be economical of the stone; home the

NOTICES OF BOOKS

Attic Red-Figured Vases in American Museuma. By J. D. Brazzav Pp. x + 236, 118 discretions in text. Combridge, Mass. Harvard University Press. London: Hamphay Milford, Oxford University Press, 1918.

This book is the result of a visit to the United States in the course of which the author was able to examine at first hand practically all the red-figurest pottery in American Museums. He selects for discussion, or at least for numirou, some four hundred pioces, about half of which are in Roston and a quarter in New York, while the met are scattered through a dozon smaller collections belonging chiefly to universities and calleges. Considered merely as a report on vases in America, which, by reason of their location and the look up to the present of adequate entangues, have remained inaccessible to the impority of achidars, the hook performs a service of very great value. But this reports which furnishes an exense for the publication and justifies the title is in reality only a by product. The author's purpose in studying the reses was, as he tells us, to try to find mit who painted each.' And, he continues, 'the greater number of the painters being both amonymuse and hitherso unknown. I have been obliged to write down lists of their works whether preserved in Europe or in the United States. Furthermore, "Most, one might say, of the archaic, and many of the later painters in red sigura, are represented in America by one or more pieces. It follows that the vases montlessed in this book form no incommiderable fraction of extent rod figurest vases. The book thus becomes a proliminary study for a complete history of Attie red ligared rase painting. The materials for such a history—the extant vame - might be compared to the pieces of a greantic picture puzzle which has been in course of reconstruction during the hast halfcontary. The main outlines of the picture had long occu known; the majority of the pieces had been placed approximately where they belong. Mr. Bossley's producessors, such as Klein, Hartwig, Furtwanglee, Hauser, had fitted many places together into groups based on potters' and painters' signatures; on roller names, and to a limited degree on style . Mr. Beasley himself had filled in large gaps by his identification of lourtoon anonymous mesters on purely stylistic grounds. Now, following the same mothed, he brings to fight at one stroke no less than lifty more unknown painters, besides furnishing recessed and augmented lists of the works of his fonction anoryms, and much needed thew arrangements of the groups previously put together. This is a sensational achievement, and like all sudden stars forward in any branch of human knowledge it will doubtless not meet at first with iniversal acceptance. There will be talk about the impossibility of success in such an attempt, about the waste of time an macroscopic researches which are not worth while, about faulty methods. The only test of a method, however, is the results achieved by following it. And those to whom thanks to the author's earlier studies, the style of some of the nameless meaters who decorated large vacuum in the rips archaic period has become us familiar as that of any of the traditional 'Hig Four,' will follow with oped fascination and confidence the new trails which he has blazed. It must be admitted that the Morallian method which he employe has ite dangers, and it is a matter for congratabilion that the ground has been so thoroughly

covered in the present book, leaving comparatively little to be gleaned by less competent investigators. That Mr. Bearley himself possesses the necessary qualifications—complete command of the vast literature, intimals first-hand acquaintance with a very large proportion of the extant vasas, and a marvellously sometime eye for detecting minute differences of style—is apparent on every page of the book. Whatever revisions of single attributions may be necessary, his main results will shand. And the way has been charned for a complete history of this branch of Greek set, in which details can be subordinated and the important features of the picture receive their due emphasis.

The book embraces the whole development of red-figured painting down to the close of the fifth century, but most of the space is fittingly theyour to the masters of the are that civile. In the chapters on the early archair purish the most increasing against are Ofton, who appears in quite a new light with fifty-two vaces to his credit, and " the dainty Epiktetos, of whom the author pithily remarks: 'You esunot draw butter, you can only draw differently. Hartwig's Chackrylion vanishes : the vaces from the pottery cornell by him are divided among these painters. Similarly "the style of Pumphaios" is shown to be a marringless phores, there are wares from his factory which bear the signature of Epiktetos as painter; others are by Oltos; still others are from the hand of a nameless arrist who worked for Nikoschanes as well. By distinguishing the different styles, and by collecting the works of the accorymum actist whom he calls after his imateurpsine 'the painter of the London Sicep and Death, Mr. Bearley brings order out. of chase. A brief chapter is devoted to the painters Euphronics, Phintias and Eurhymides, who are ill represented in America. The Euphroman problem would dumand a book by itself. Mr. Bearley in addition to his attributions of fourteen russs to Euphronics mates what pieces he would useign to the Panaliles Master, wented by Furtwangler, and distinguishes from those the works of [Onco]inco whom he regards provisionally as a separate series. The former is admirably represented in America by ten vame out of a total of thirty-two, night being in Boston In the same collection are also some fine extemples of the work of the Brygon painter, to whom seventy vaces are Two imitators of the latter, the Berlin Foundry Painter (Hartwig's Diogense Master I and the Painter of the Patis Gigantonauchy are clearly differentiated from their master and from our another. The authors unpercant emitributions to our knowledge of the painters of large vaces in the ripe archair period are familiar to reaches of this Journal. The works of the Rorlin painter are brought up to usuety mine, those of the Kloophradou painter- who may be said to play a kind of Piocontine to the Berlin painter's Sumess, and who, for the giant power of his standing or moving figures has not quite his organ mong year painters - new number about fifty; these of the Pan painter and increased to fifty three. Some non-painters of this class make their dobut in the present book, one of the most interesting being the 'Flying Angel painter,' so called ofter his picture of a silen hobling his small son on his shoulder. on an amphora in Bessia. Firstwaight's Panthiesiles Master, a painter of atrung individuality but of very uneven tourth, is represented in America by two or three excellent pieces and by many others which present a dreary specials of talent conmerculized. It is interesting to note that these American examples were studied independently by Mrs Swindler and by Mr. Bearley, and that their lasts agreed very shouly. A similar coincidence accurred in the case of the Villa Giulia painter, Friekenhaus in his Lengensum ascribing to upo hand lifteen vasses, thirteen of which Mr. Benziey metholed in his list. The period of the developed free style mininged and painter of the first rank—the Achilles Master, whose works in red-figured and in polychrome technique Mr. Boarley has already soffeeted in an artisle in this Journal. From this time on the art rapidly degenerates, the menotony being colleved occasionally by such figures as the 'Vainter of the Boston Phode,' the Lyknon Painter, and the 'Khoonloon Parmer, multithe line which began with Analykulos dies out inglorously with Medias.

It is a remarkable thing that a book composed largely of lists which are intended for the specialist should make such interesting reading. One healtabes between admiration of its brovity and regret that the author has not given us more of his happy characterizations.

of the various ariists and more longer passages such as that in which the immorations brought in by Emphronics, Phinnias and Eathymides to the rendering of the human form are described (p. 27), or the one in which the decline in visce painting colonists with the rise of freedo painting under Polygnotos and his co-workers is explained (p. 142). His incidental remarks on this frame of vases show that he is equally at home on this branch of the subject which has been strangely neglected in the past.

The book is attractively printed and well diastrated, making available a large amount of impublished material. The ball-tone reproductions of photographs are innomably clear, and the practice of illustrating one or two figures from a painting on a large scale is to be commended. A few of the author's tracings are represented directly, but unfortunately, for some unexplained reason, the impority of them have been reduced, and have suffered seriously in the process. This, and the obsence of a list of the new innaters, either under the chapter headings or in an unlex, are minor blemsakes hardly worth monitoning in connection with a book which is easily the next important angle contribution over made to the study of Aktic wase painting.

A History of Greek Economic Thought. By A. A. Tazyra. Pp. 162. University of Chicago Press, 1916. 3s. 6d.

This book, which derives its inspiration from Ruskin's protest against Victorian seimonics, sudsavours to show that Greek securate theory was essentially post-Victorian In this attemps Mr. Trever has been largely successful. His conclusions are based on a poinstaking study of the Greek authors. He does not indeed mention the acute atmorphisms of I-wrates and the 'Old Oligarch' on the economics of importalism, the speculations of agrarian writers on diminishing returns, or the wrangle of the higher teachers over the propriety of payment for professional seriess; and he assumes too. readily that the opinious expressed in Domosthones' private speeches represent the orator's personal judgments. But his survey of Grock texts is wider, and his interpretation of them more careful, than that of his prediccessors. But the chief feature of the book is its perpetual emphasis on the fact that Greek accuromate never won the means of his by losing life uself, and that many of their prenouncements which at first may appear obscurantial to us are but applications of their correct principle that economic science, like every other science, is subcraimate to the science of human wolfare. At times Mr. Trever is over-includent to the Greek writers. Though he frankly criticises some of their weaknesses, e.g., their tendency to asceticism and their salf-contradictory defence of slavery, he passes over some of their most marked dediciencies, s.p., their failure to discern that slavery is unprofitable in the long run-a fact known to several Roman writers and that the key to many of the problems that vexed them was the ortelligent use of machinery. Conversely, he bears too hard on the "sordid" medern somalists, many of whom are secking, like Reakin, to supplant the each nexus by a bond of social co-operation. Neither is he quite fair to the 'orthodox' economists, for these cannot be held responsible for the mississ which others have made of their abstraction, the Economic Man. But Mr. Trover has generally displayed the Cloud communication the right light, and his exposition of their doctrines has come at an

Solon the Athenian. By Ivas M. Lisponiu. Pp. vii + 318. Berkeley: University of California Press, 1919, \$200.

This bands contains a critical telegraphy of Solan, a text of his poems, with translation and commentary, and a runs of appondices on special problems arising out of Solon's story.

The chief feature of the higgraphical part is the thorough going acapticions of the author, which induces him to reject almost the whole of the traditions concerning Solon, except what is based on Solon's own poems. This sceptionan, on the whole, is justimable Mr. Linkarth probably oversteps the mark in doubting the authenticity of the discrete of Aristion; but he makes out a good case against the hard-dying theory that any considerable number of Solon's laws survived to the fifth century.

The many knorty problems of interpretation contained in the poones are discussed fully and with good judgment. The translation, however, is ungainly, and does not

reproduce the pithlenes of the original

The discussion on the simple of Solon's personal history, and especially on the compact of Salamas, a well done. Apart from a very credible suggestion that Solon rather than Drace codified Athenian law, the author has nothing striking to say on constitutional quantitions, which he treats either authority. In his chapter on Solon's momentary reforms to follows de Sanciis in dividing the Aeginetian currency mins into 70 drackings. This theory lacks proof and it has the disadvantage of catablishing a difference of weight between the currency mins and the commercial mins. Another unlikely suggestion is that the reform in the cain sumdard was the result of a gradual adjustment to altered trade conditions, and not the single act of Sulon. Alternations of this kind are usually decrease more or less arbitrary action of men in authority.

Mr. Linforth does not give as any clearly drawn portrait of Solon. But he rightly emphasizes that Solon's work was none the less affective though its success mannet linearistics.

Minoïde Mynas et ses Missions en Orient (1840-1855). Par Havar Osovir (Extrait des Mémoires de l'Acad. des l'ascr. et R.-L., tome al). Pp. 83. Paris Imprimerie Nationale, 1916.

Minorite Myras, though not much known to day, deserves to be remembered among those who have suriched the collection of Greek MSS, in the Ribliotheque Nationals, and as the foreignate discovers of the British Meneum MS, of Rabrice. He access to have been far from impeccable as a actual and his awars were often seems not was he perhaps, it we may judge by the fate of several of the MSS, obtained by him on his mission as agent of the Freigh Government, as arrupolately houses as he might have been; but he certainly did good work in the commination of Greek mountain libraries and the collection of Greek MSS, and M. Omour's study was well worth undertaking. He gives a short inegraphy of Myras and an account of his measures, which be follows mowith the texts of various reposts as at home by him to the Minister. At the end are given help of the MSS collected by him. In all cases where identification is possible the mention or description of the MS is followed by a reference to the mumber it bears at present in the Bibliotheque Nationale. These identifications, which must in some man have involved considerable labour, will make the work entremely quarted to atmignific the collection who wish to discover the preventance of the individual MSS.

Les Cultes Egyptiens à Délos du IIIe au Ier Siècle av. J.C. By Pirrat Rossau. Pp. 300: Paris : Berger Lebrault, 1916. 10 fr.

Monsieur Pierre Roussel has collected in this handy volume all the engraphic material relating to the suit of the Egyptiza divinities at Deles from the third to the first centuries in c., including everything yielded by the recent extractions of the three Sections, has published in it the plana prepared by M. Risson under his supervision of the three temples, has described them, and has illustrated a few of the more important antiquities found in them. Of very great interess is the late-Deric column bearing the macription

of Apollomos, second of the name, and third priest in succession of the oldest Sarapinion, which was founded about the first quarter of the burth century by his grapdiather the that Apallonian is you said a grown Amalasiana in Alyimone in the liquide for few agoin margirero if Algenton Depuntions to hierali sudies turino de Canal to Base Inglivergenta en erri. If we suppose that this old gentleman was really ninety seven at his death, and put his death at about 280 n.c., he will have been burn about 377 n.c. under the native dynasty of the Sobsumytes tings. He will have learnt his religious lore white Egypt was still independent, and imless he had forgotten much of it when he same to Debe (which cannot have been till some time after the Macedonian conquest of Egypt, when he was already an olderly man he about have been a valuable repository of Egyptian rites, and have handed down to his accessors an unusually pure branil of Egypticium. We find, however, practically mething whatever in the extant remains of the Sarapinia that is justimilarly Egyption in character. An occasional montion of a sacred eye or votice are in a flat of temple properties, the (rare) cumy of unusual Egyptian deities such as Takhnapala, the courrence that that are often of Egyptian rames among the devotees. is all that is Egyptian in the inacciptions, while the actual temple rains themselves have yielded list one or two unimportant Egyption unimpities and have nothing whater or that is Egyptian about their architecture. The pool of instrution, which occurs, is an Egyptian idea, but is made by Greeks in a Greek way. The Egyptian things are more properties. brought from Egypt to give local colour, in precisely the same manner se the modern Bond Street biocophant of some mystic 'religion' deceates her temple shop with Egyptian ushabitis, Japaneser No-masks, and Barmese guit Buddhaa. The tample-shop was exactly what happened at Delon, for as Apallonies the Second table no, o deck and eximaterires unes eine Curup ben Lugumation des auros deschergligem inne un paperen est proclareire. survises moregon; the cognitivity of the cult had so for increased in the thirty or bury years, perhaps, that had olapsed arms the arrival of Apollonics the First that the petty hazad quarters, the back-shop, so to spank, in which the Egyptian had first set up his godcould be exchanged for a recour sample; the subscriptions of a subsciently large congregation could now be counted un, and the 'First Church of Sarapin-Scientist (and his family) in set up in the holy is a of Apollo. One can sympathize with the anticymen of the Rhoneian archides at this alien juvasion, and understand the invanit that followed, also the prohibition of the foreign cult (which happened in later yours) by the Athenian authorities. The power of the foreign primate is, however, shown by the prumps revenual of the Athanean occres on appeal to Rome, and the permission to worship what god they willist given to the Saraphate in a remine consultum, of which a translation was set up in the temple. Gallis had already appeared on the scene. Sarapa was now secognized in one of the rightful doities of the biland.

It is probable that all common Exyption character departed on at the cult at a very early day. The rims Apollomes (Hor. Harawote ['Annierge] or whatever his real name may have been Apollomes (Hor. Harawote ['Annierge]) or whatever his real name may have been and his gods decembly and in order. Bis son, called by metrics, must also have been an Egyptian, some it is burdly likely that the surringry the foundation force 300, and apollomes as then marrly eightly apparently. What brought the metern prices with his blob from Memphis warre of departments whether be was sent efficielly to coperated the official cult of the power that them dominated the Acquait or whether he came as a private speculation we are not told. In any case, Demotroes after the death of his father probably specify hellomized, and under his on, when the first Surapinion was built, only some of the distributions, and corrain riunds processed the real Physicas character. We know how soon Harpolyness was alternitied with Eros, and "Harmanuhis" assessments being.

However, these are commonts rather on the facts than on M. Rousse's peak. The author gives as interesting comments of his own on the inscriptions, and adds to them valuable experses on the history of the Dahan Egyptian onto, and on the code, their neveroes and the liturgy. The work is very well done. M. Roussel has plenty of references to Egyptalogical writers, but at times uses plants—logy that seems to imply

on his part some lumination to accept their authority. On the matter of the voltre care, a common thing in ancient Egypt, M. Roussel says that M. Capart, Rev. Hot. Rel. E. 1905, p. 201, cross (the italies are mine) one le dieu Medantinia, cité par un pappres de Tubernia, n'est sutre que "les occiles qui entendent." M. Capart believes this with

reason : ongoing relate was in Egyptian the par that have.

With regard to the Agathesianness serpents, whose oult at Alexandria is so well known (cf. the representation in the extraomics of Komesh Shuga(a), M. Roussel scribes : "Solon Water . . . In deese serait Thormouthis, is dieu. Proi, plus tard Corocher. In moline sut il certain que le couple fut identific avec less se Carm sons tear forme de serpanta. Tele and Carris had an serpent-forme in amirat. Enyptian leadography except in no far as such a snake-duity as the Theban necropolis goddess Mirit sker was identified with Hather of the Weste and so with Isis. The Alexandrian serients trees, as Weber says, figures of Thermouthis (Ernater) and Paois (Paois, the larger being delibed luck or deating, Ep. via. No doubt the popular syncretion of Pinlamais and Roman times Montified their with Isia and Osiris. Onnophris Is Carris Unnefer, and Cairis then - Sarapis. M. Rousest rafers (p. 247) to "In dalast, tomjuma convert, sin l'origina du Sarapia." I fancy it is considered by the Egyptologists to be closed. Letrenne long ago suggested a probable wigin for the Simple-story : Saranos (Asar-Hapt, Csans-Apis) came from Se-n-Hapir, Yourser, 'the place of Apri,' the modern Sakkarah. But the classical acholars still go wandering up and down the shores of Pontes vainty weking Sarapis. The parely Greek type of the god (as usually rapresented) is remarkable, and is probably of Syrian origin.

The feet cut upon a slab of the tought (Fig. 15) are a common ancient Egyptian ex-vote. It occurs as early as the eighteenth Dynasty at Deir el-Bahari, for instance,

and there are probably older examples.

We notice that M. Rousel has not been able entirely to get rid of the French mahility to spull toppin names and words. In a mote on p. 286 Mr. Blackman is tarned into a German, as "Blackmann" (probably because his paper quoted appeared in deg. Zaitele.), and the German Wisdemann becomes "Widemann". In English quotations the word "markle" usually appears as 'markle. However, as will pass over these little foldies? M. Risson's plane are very clear and good, and the few illustrations of the tamples and of objects recently discovered in them are useful. We wish that M. Roussel had republished the Egyptism inscription munitioned as p. 65; was it not as well worth republication in a collection of inscriptions from the Egyptian shrines of Dales as the many unimportant little Greek ex-voles which he has republished!

H. R. H.

Recherches sur le Traité d'Isis et d'Osiris de Pintarque. By Leon Passessum. Brosseis: Lameston 1913. 5 tr.

The war is cospensible for the delay in reclassing this interesting third book. With matters tomporarily more important than archaeology obtaining the whole of the reviewer's days and much of his nights also, it was inevitable that works not of first class importance should have to wait till the war was over before they could be read.

M. le Professeur Parmentier says in his preface that his aim is purely philological, that of the criticism and exegusis of Platacah in the first place, and that it is only incidentally that such quantium as the supposed Sinopic origin, of the god Sarapia, or Platarch's attempt he prove that the Egyptian gods were of Greek origin, comes into his purview. He is, however, interesting on the archaeological as well as the philological side. The disquadion on the magical properties of brouse, a proper of the disputed him the carrier into purely exclusives scalarities of brouse, a proper of the disputed him the carrier into gods and a rightly translated. Prof. Parmenties thinks, by Antyot set of est pourpoy nous mettoms is main our tent vace de brouze is decuyere que nous fait do brout pour le faire ressur) is outertaining as well as hearing.

On the subject of Sarapis and the communes of his Simple origin, Prof. Parmentler well sums up the general modern opinion as demandly against the Smope story and in Jayour, of the natural adoption of the god from Egyps, Sarapis being sumply Asar-Ham, Osimpis, and Simple the Lessman loss of the Mamphite descrit, out of the wording of Asar-Haps, which bore in Egyptian the name Senliapi ("seal of Apis"), translated in a hi-lingual description as 'Assesse. The whole story was simply due to a miscomprehension of this Egyptian dinops name. The Plate status is quite likely to have come in reality from the Syrian Sidentiala, whomes one version of the dary brings it. Hadra was the natural tireth equivalent of Oalrapia. All this was shown a century ago by Champollion and by Letronin. but the facts have been curiously ignored by classical scholars, while wind-spinning Corners have sought for the migin of barapis in a hypothetical Sarapat (*Prince of the Abyse 's the Babylemian god Enki (who was a god of the see, but not of hell), brangle to Greece end Sinopa of Portina, and have denied that Sarapis can equal Ouragis because there is no wat the beginning of his unmer; to such faidling criticism does the blind following of a philological Disciplin head the Toucomo mind. Es sense so sein! But it monally isn't. It was need saity a few years ago for Bouche-Lectoray and Initiory Lovy. again to point unt the abvices, and, with recture critical unterial to their hands, to show that the Smoon story is nothing whatever but a sensational novel, a work of fiction, in which even many of the characters (e.g., Skydrothemie, 'king of Sinope') are imaginary. Scott-Moncrosif in his article on the de lands of Osciale from the Egyptological side (J. H.S., zxix, (1909), pp. 77ff.) hold the correct view of Labronne as to the origin of the names, and M. Parmanior fully agroes. The matter may now be considered the project

M. Parounting is also interesting on the Egyptomams of the earlier Gesek writers and the legests connecting Greece with Egypt, which Plutsron turns inside out in mentioning the reactionary thesis that it was the Egyptian gods who came from Greece rather than the reverse. He also discusses the Egyptian names, words, and significations of them mentioned by Pintarch in a way that will interest Egyptologists as well as classical scholars.

Picus, who is also Zeus. By Kanner Hanne Pp. 76. Cambridge University Press, 1916.

The Ascent of Olympus. By Rannat Banas. Pp. 140, 10 Plates. Manalester University Press. Lendon Longmans, Green & Co., 1917. 5s. col.

In the nine loosely connected essay, which form the first book Dr. Rendel Barris follows up the thome of Bounseyes and his other ourlier works dealing with the calls of the Thursder-God, who is a rod weodpacker and who dwells in the out, and of twin children who are the sons of the Thursder-God. The largest chapter is devoted to a study of English place names derived from the weodpacker, as wideness for the existence of the call in Regiond: A solveidiary study of the mains for the woodpacker in dialect or falk-love suggests that it is the race-bird and the protector of travellers, and under these aspects performs the asme functions as the December, the sons of Thursder. The remainder of the book is occupied by discussion of exists mythe connected with twin surship, of the coil of the Diometri at existing sites along the Bounders m, and of an instruction from Am Tab, which suggests twen worship in the coil of Jupiter Delichance.

The second book contains from because, dealing with the casts of Dionyses, Apallo, Artemia, and Aphrodic respectively, which were delivered during 1915 and 1916 in the John Rylands Library. Manchester, and are hors reproduced with second appendices and directations. To automatica the conclusions obtained. Dionyses in the next primitive straines of religions through we the parameter by growing on the Thursday Oak, which was Zone, hones in a most degree he is a large Zone and a musor Thursday God. Apollo is traced back to a similar parameter, the misilance and also to the heard, the peops, and the application; in fact the word Apollo is no other than apple, taken over into Greek from one of the acriticip forms of the commention between all these plants is to be

bound in their early employment for resolution: Apollo came from the Hyperborean morth, bringing his garden of bashing comples with him. He also brought the belief in the currative virines of mice, frees, and Exards, which crystallized later into the cult of Apollo Sminthous and the scuipture-type of the Saureicones. Actamia is the witch counterpart of the medicine-man, Apollo, her plant is the common magneric (Ariembia advaris), which has special virine for heating discusse of someon and allocate of children and set a sateguard from misferimes. Lastly, Aphrodite is the mantrake, or love-upple, anciently conscived to be of human form, male and female, or black and white; frome the occasional traces of married or black Aphrodite. Unlike the other salts, which show northern origin, the call of the mandrake appears to have some into Greece from the Levant, possibly from Cypron.

Testimonies. By Resnet Harans, with the assurance of Vanues Boson. Pt. 1. Pp. 178; Cambridge University Press, 1916.

This is the first part of a work which also at the resovery of the bird known treating on Christian theology, it collects the practs of the existence of an Apostolic work which has passed into observity and it shows along what lines, by collation of the Pabhers, it may be possible to restore the text. Part II is to be devoted to the recovery of this text.

The work in quanties in a collection of passages extracted from the Old Testament for contracted purposes against the Jews. There are still in existence early Christian works which are little more than a succession of such anti-Judan texts with accompanying commonwrites. These should be traced to one original which ante-dates the New Testament little work and by shigh the problem of the Johannine quotation should be explained. They original was stributed to Matthew and was divided into five meetings, which were the basis of the five hooks of Communitary on the Dominical Original violentials in the second contary, and possibly of the two books of Hogssippes on the Apostolical Processing; it will appears to survive in a sixteenth contary manuscript at Monat Athos described as Matthew the Monat against the Jews

The Ichneutae of Sophocles. By Richard Jourson Walker. Pp. xix + 644.

London: Burns and Oates, 1910. \$5 3c. net.

This hook contains a new text of the play, an English version, clatocate discussion of the style, reconstructions of alleged has works of Sophocles, and an Appendix on tetral legins. Like "Arri Mair, it is examine, enthuseastic, speculative, and in consequence to a podestructure to the leging.

As an example we may take the author's treatment of line 15, where Hear reports [1] is the purpose of the service of the form of the letters are list at the beginning, of is doubtful, and the purpose gives in no correspond to as. Wilamowitz reads declardly you had all every suggesting despecting and Paureon rectangly. Mr. Walker auggests a few company of the form of the first in the contains that more in hand, unlike more myself, I establish with my head discovered. For a first in this sense he can either that it is worth, line 218 whose oth spheries form (W.M. 1794). Elsewhere he can find nothing nearest than the very different very former of H. vi. 321. Sense is a Durision used by a Magazian in Armsophanes and by certain Alexanticious. Mr. Walker thinks it characteristic at a Satyrio dialog conventionally adopted by Sophisales from Pratings. For my fee he address made the former below, not carry convincingly, from Herodutes. Finally, he believes that the whole line describes the appearance of Apollo in the restable.

appropriate for a person who is constructing a starch for stolenged. The Roman starcher per forces of divisor carried a dish and were a loin cloth or a funic: Apollo carried a mortar and appears without a hat. Artecephanes and Piano are our situesses to prove that an Athenian who concredence for man's bone to be arched must do a region or wearing an anguebot rune. But the dish i Gellius, Mr. Walker tells us, pack. Forms for the certical that the Roman cospon we derived from the Athenian. Unfortunately Mr. Walker's memory is a fault Gollius doe not quote Festus on this tople. The saventsenth century communicators on Gellius do. And seems in its not Festus but the accommendator who suggest that the Athenians rave the Roman legislaturs their precedent. But went if it was had said what Mr. Walker thanks he said, it would, in the absence of further originates, is classporous to assume that Festus had in smill air Athenian use of a dish. And after all, dish is not a mortar, nor do undergraduates necessarily discard all garments save their shirts when they walk about the streats, as is their custom, without hat.

Mr. Walker is on other ground when he suggests that Apollo may have carried a hemalit's staff which may have be in ordhanged by him at the end for Herman lyre. It is also possible, though not proven; that this start was of gold, and played a part as an surment of future roward in the transaction between Apollo and Silenses But Mr. Walker's ingonuity is not exhausted. He can tell us why Silemes gives back the staff to Apollia. It is because the Satyra have gone and, and because Apollo wants the lyre in order to restore them to their senses, and because, within the smill, he cannot buy the lyre from Hormon. All that is wild, improbable conjecture. Who sends the Satyrs mad? Pan, we are table whose shrine the Satyra have descented. But the Papyrus never members Pan? That is because all references have been corrected out of eight by an intelligent ings appearable our scribe who worshipped Pan of Panopelis so near, you see, to encyrbynchus and did not like the way in which Arendian Pats was represented. This same Pan, an ording to mer unther, in the Master from whom Apollo premit- to free the Sasyes. There are difficulties in this view, but they disappear if we assume that a encesseful searcher case lines at hele had a right to manuant other people's slaves who had helped him. What if we assume that he had no such right a far more probable #Soumprion !

This mathest applied to the early history of drams naturally proves fruitful. Bergk conjectured with some phusibility that the more of Pratinas is concealed in the echolisal's wond row on O.C. 1376. Mr. Walling, alaborating this conjecture, and rewriting with much ingensity the fifteen verses which he is thus enabled to slaim as the work of Pentines. declares from this american and extgeons text a theory of the metres, plots, and disject of the post. He defends as genuine the famous fourth frequent of Thomps, and cut tall us what were the original words on which the amagram which now teakes to escues of the passage was superimposed. Having revived Alcanas Tragious, as alleged Athenian predice one of The pia, he makes out a case, more reasonable than some of his theories, for the existence in antiquity of a dialogue written by Sophieles in proce about the chorus. He does well, again, to insist that Arion is me alleged by Suidse to have used a Satye chorus, but only to have introduced Satyrs speaking versa. The well-known plurase paper origins means, he thinks, that Ariem made his choice stand inscrive while the Satyre spulce their lines. Thesps. added an actor to the chorus, but did not me Satyre. Pratimal mood the Satyrs as the choren. Epogenes, working at Sicyon for anti-Derion, phil-Athenian employers, redited but did not venture to abolish the Dericiem in the shoral element of the old ritual, but introduced a new tests fialect, Atue or Ionic in flavour, in spoken interlinese. The doctrino is plaudille, but ress on no convincing evolutioner. We can only admire, but not severe, the reconstruction of samplesed Eireniana written by Sophucies to be some at Delight by the chair boys at the breaking up festivity before apollo's annual journey to the north; nor can we do more than mention the claborate Appendix and the attempt to prove that Sophocles composed his Theban plays

Les Trafiquents italiens dans l'Orient hellénique. Par Jean Harzyene.
407 pp. Paris : De Boccard, 1919.

M. Hatzfeld's usudy of the Italian community resident in Deles, based on an exhaustive examination of the inscriptions, served as a preparation for the present work, which covers a much wider ground and is marked by the same thoroughness. It was completed in 1914, but little fresh material has come to light since that date. The volume of the new Corner of inscriptions dealing with Euboca appeared too late to be of time to the suther, but it contains very low items relevant to the subject. We may note, however, that the macription from Chalcis mentioned on p. 70 is treated by the adiller as a list of honorary gymnasiarcha and not as the record of a college of son M. Hatzfold draws some interesting conclusions from the distribution and dating of the inscriptions : he finds, for example, that the great importance of the Roman successioners in the Layant was confined to the first century n.c., and from this he deduces the corollary that Mommann's verdict on the dustruction of Carthage and Corintle as a inassure of mercantillant is at least exaggerated. In some instances it may be questioned whother the organization or identic (which he uses freely) will bear the weight laid upon it. For example, M. Harrfeld finds no trace of Roman traders in S. Rassla, and assumes that they did not venture so far affeld. The evidence of temb gaintings however shows that gladiatorial shows were introduced into this region, and this is usually hold to be good evidence of the pressure and influence of Romana Again, M. Hatzfold owns doubt on the providence of organised conventes elemen Rammorum (of which Kormanann and Schulten have made much). Here, again, the argumentum er alentio segma to be a little overworked. 'If, he says, 'there had been such concentus in Asia at the beginning of the first century a.c., they would have had an excellent opportunity of manifesting their existence at the time of the massacres of BB* -but we do not hear that they took any concerted measures of defence. Is this aurprising, considering the meagreness of the record! By the way, is M. Hatafold right in translating resplyant fairer four toge carrie (which those who had recently acquired the civiles exchanged for 'la tunique Greeque', ? Suraly the words of Posidoniusperamperatures respoymen faires -mone that they put on threek faires in place of the toyo, which was segmental in outline

The fast of peaks to which this acadimtors balanged given at the close of the volume is exceedingly useful, and shows that this class was largely recruited from S. Italy. This, no doubt, is the reason why we hear of 'trakesa' rather than 'Popular in the earlier inscriptions.

La Loi de Hieron et les Romains. Par Janden Cancorino. 307 pp. Paris: De Boccard, 1919.

This work might be described as an introduction to the third Verrine cration of Cacero, which was certainly mostful in view of the recent hisrature of ancient economic history. M. Carcopino describe eredit for his exhaustive survey of the evidence (and modern interpretations thereof), his hacid statement of the problems arising thereofy, and his logical hamiling of those problems. It was not, perhaps, always necessary to denothal hypotheses long since abandoned, such as that of Göttling with regard to the spansidappo of Acine; but M. Carcopino prefers to arr on the side of completeness. His criticisms upon the theories of his producessors are scute and generally convincing but it is not always easy to follow him in the solutions which he adopts. For example, the result of a lengthy discussion of the aper convertes (p. 225 fl.) seems incondusive it is fined to accept the view that in the well-known passage iii, 6, 13 (perpance cretains a ballo subscites a quartum over convertes publicas popula Roman factus, former allowed reddites; is over a consertion focus; solet), the alosing words form a parenthesia ramark concerning ager publicus in general. We are not loth to admit that the perpanent

distributes cannot number 28 out of 65 but some such cities there must have been; and M. Carcopine throws no light on their identification. Nor do we feel some that he has cleared up the really difficult question—if indeed it is soluble—of the relation of the miliets of Varres to the fer Harmica: but his closely reasoned arguments are at any cate worthy of —rions consideration.

The smaller consulting referred to in iii 81, 188 is, no doubt, as M. Carcopino says, the S.C. do consults practice is: but it is not so char that this explanation will hold good for the passage (iii. 70, 183) in which a smaller consultion is coupled with the Learnest Carra. Here the reference is rather to the decree concerned with the parabase of corn for the parabase of the analysis which are necessary in order that the law night become operative. Nor can we follow M. Carcopino in taking manages in iii. 76, 175 to be used for decrease. The contracts in question do not concern decrease, and the machinery amployed was no doubt different.

The Platonism of Philo Judaeus, By Tuosas H. Buarsos, Pp. viii+106, Chicago, The University of Chicago Press, 1919, \$1.00.

This book is a careful study of the influence of Plato's thought and language upon Philo Judasus. Prof. Billings opens with an interesting survey of the history of Philonic interpretation. Until the sevent-earth sentory, on the authority of the saying quoted by Jerome, & Clair shermafer & Dhilres chlassifer, Phile was almost universally regarded as a Platenne; and, thanks mainly to Eusebins, he was also thought to have been a Christian. But in 1644 Disnysius Petavnus, while agreeing that Plate and Phile were alike, argued that both were an bristian, because they subordinated the second person of the Trinity; while a few years later Allians "seems to take it for granted that Planestiem and Christranity are two different and incompatible things, -an opinion which ames hearify Dr. Ings. In 1693 Fabricius published the first disintercated study of Philo's Plateenism. His work was continued by the Cambridge Platenists and Mesheim, the last of whom emphasised the achecthism of Phile, of which much has been made by later writers. Prof. Billings, while careful to point out State and Perspectic influences in Philo, strongly champions his Platonic orthodoxy; and after reading his thesis, one feels that Prof. Billings is right. His view of Platonum is in the main that of Prof. Shorey, a safe guide, though many English scholars would not agree with him in detalls We are glid to note that Prof. Billings remass to derive the 'saystalam' of Philo from Positionins, in report to whom faith tends to outrus knowledge.

One naturally farms to what Prof. Billings has to say about the Logos dectrine. Philo in some passages includes the Logue among souls and therefore treats it as a * purson.' Zuller maintained that for Philo the Leges, as transcendent, was personal, as immoment, unpersonal. Prof. Billing agrees, but holds that it is only with conscious may of metaphor and morth that Philo speaks of the Logos and Logor as personal.' This is difficult to prove but even if Philo is equally serious in both ways of speaking, his promintency is no worst than that of other philosophers who have amused themselves by teying to reconcile the irreconcilable concepts of transaemhuce and immunence. It is noteworthy than even Plate, it seems personined the Ideas, calling them pads in Timeres if c, a prosper which parely i Mr. Archer-Hom, for which next cause no surprise in view of the later history of the bless, which in Plations definitely become spirits. As Prof. Billings says of Phile's Loger, 'under the influence of the religious imagination they are hypomasized and endowed with personality. But they remain shoughts of God, State influence is apparent in Philo's doctrine of the Logos. Prof. Billion does not dany his use of Stole expressions in this connexion, but argues that they are used in a some manifestly not Store. Philo's Logos was not contaminated with Store materialism, nor did it exhaust the divine nature, as the Leges of the States did. Here Prof. Billings sooms to have made out his case, as in other points where Philo has been necessed of staterialism. In Phile's sables Prof. Billings can find little that is not Platonic or a legitimate development of Plato's teaching. He thinks, however, that Philo diseases the value of moral effort for its own side more atomaly than Plato, for whom the intellect was the supreme thing. Certainly Plato semicinases makes his readers feel a little too scutoly that salvation is only possible through philosophy and, what is more, philosophy of the Platonic brand. The last chapter of the book is a simily of the correspondence between Plato's and Plato's phraseology. Here, as throughout the book, copious references are given. Prof. Itillings deserves the thanks of all who are interested in the later development of Greek thought, for a sober, sensible and wall written piece of work.

A Handbook of Attic Red-Figured Veses, Signed by or Attributed to the Various Masters of the Sixth and Fifth Centuries B.C. Vol. II. By Joseph Clark Horens, Cambridge, Mass. Harvard University Press, 1919.

The first volume of the Hamibook was published earlier in 1919; the second and last volume has now appeared, and it remains for us to seknowledge our very great obligation to the author. We are indebted to him for what is, in effect, a dictionary of red-figure potters and painters, for a reliable account of all years 'signed or startbuted,' with brief particulars and complete references, and for a collection of illustrations of most signed vases. That is, we have been given in convenions form the data for future study and a guido to what has been done in the pasts so far as the authorship of Greek red-figure vases is concerned. Any branch of archaeology possessing records such as those is at once placed on a different and firmer feeding: our consolation for having worked so languard as parafully without them is that, ance the most vital additions to our knowledge of the anti-ject have been made daring the best few years, an earlier publication would not have inclinial them.

The requirements of a book of this kind are, in the first place, accuracy and completeness. To attain either under present conditions is no easy matter; but infinite care has been taken to accertain the description and whereabouts of each varu, and to vanify or correct its references. It was not possible; unfortunately, to obtain photographs or drawings of every signed vase, but it is already much to have the illustrations side by side, and to possess a cortain number that are new.

In the second place, a handbook dealing with vasa painters requires a good mathed of classification. We referred, in the J.H.S. for last year, to the one drawback of Dr. Hoppin's method; namely, that the list of vases by an anenymous painter does not include those signed by a potter. For matance, the amphors by the Menon Painter with Andokidos signature, the cups by the Tolophos Painter with the signature of Hieron. They are, indeed, connected with their painter by a note on 'other stributions,' but their absence from the list gives an made mate idea of his activity, the more so because they are often among his more important works and more probable attributions. They need not, of course, he described twise to number them with a cross reference would be sufficient.

With regard to Vol. II in particular: the London Sleep and Death Painter deserves a place to binaself, since, though associated mainly with Pamphaios, he painted also for Nikoshlenes. The Hermaios Painter, according to Boarley, painted a vase for Chachrylion: this was noticed in the first volume, but in the accord somehow over board. Not the least useful part of the book is the museum index, giving the vases by the various artists in each, and possibly worthy of a separate publication for the baneils of students travelling.

Our great need is now for a book on similar lines dealing with the black-figure period. Here we must choose whether we would rather wait for a fuller assemus till the period has been mapped out more clearly, or have as seen as may be a publication of all available facts concerning the black-figure masters. There are few who would not yots unconditionally for the latter.

PRINTED IN GENET REPEATS BY BIGHARD CLAY AND SONS, LIMITED, MINISTER ST., STARFORD ST., S.E. T. AND BUSHAY, SUPPOLE.

Saprement proposed against out on producted two former anton form afteroropies 16 you me ano 10 - losidel 1 . Statharson Tavadi " S Taradi speal & dolo 3 rates du autoro les ou lest Su des les ous ligours les Hoo hages ; pow of pop les resolución o orole plumpique Top fyrolioge (& figures TOW SPITE OF OUT OF SE Interoper 68 istone . Wie Wo Barroy dwelfo quincipo The due las I veliped hough

THE USPENSKY GOSPELS, VELLUM

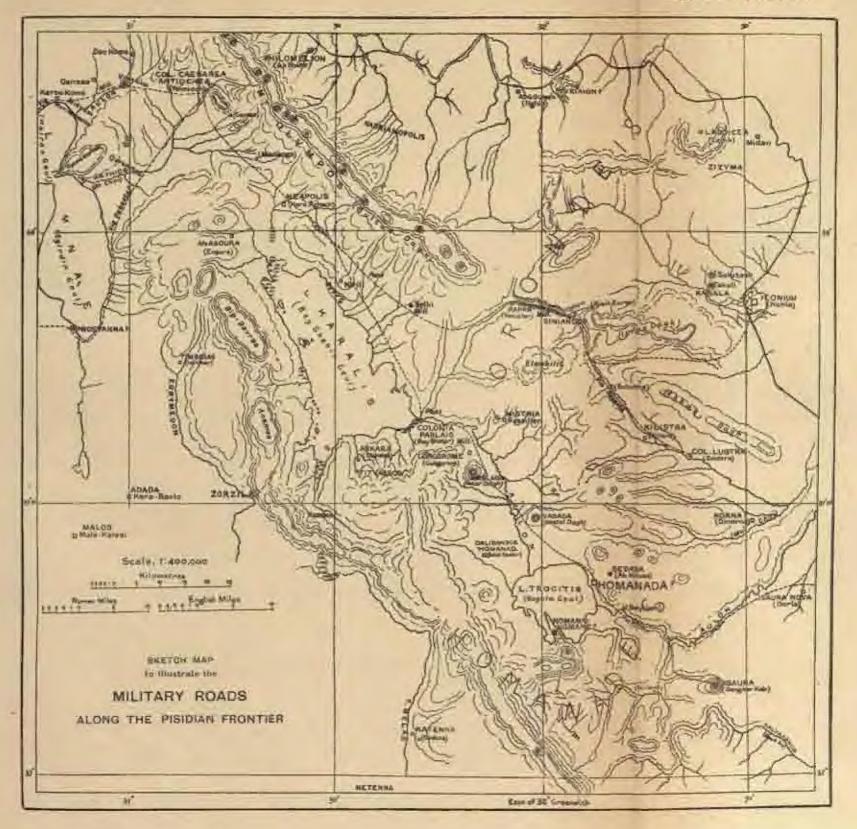


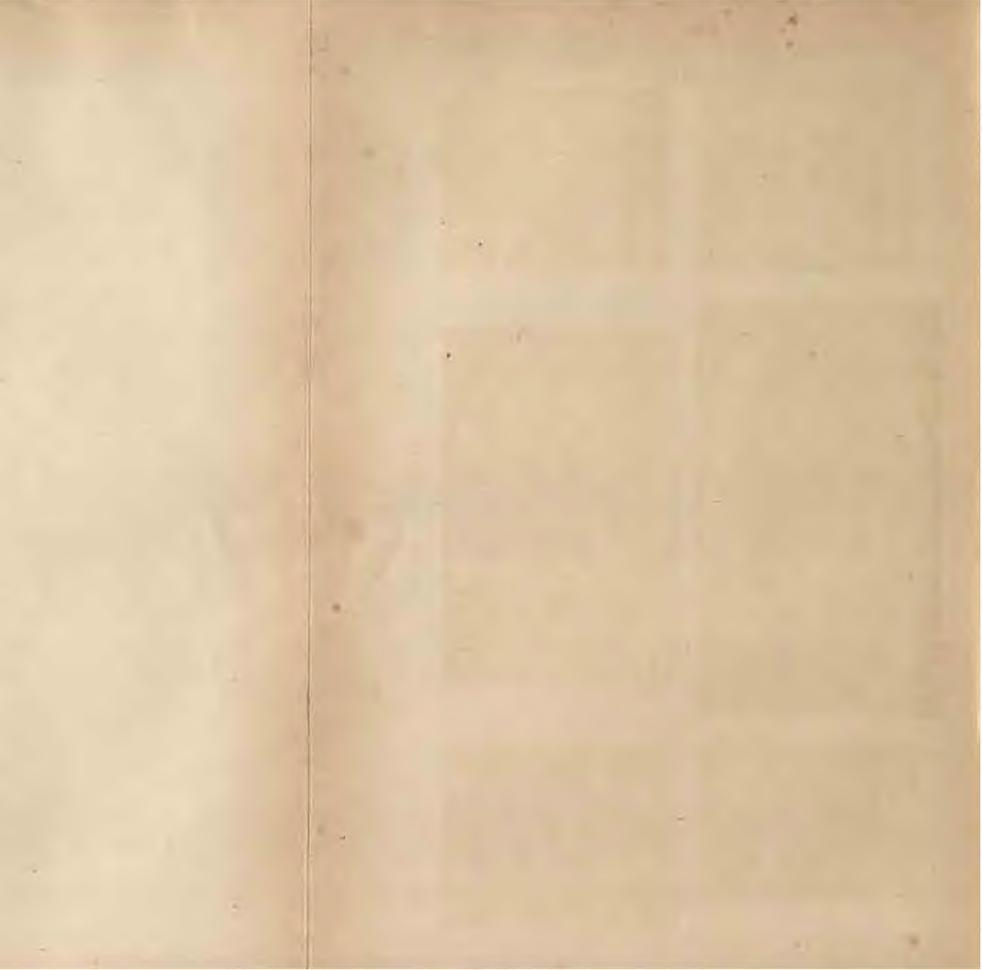
























THE BOSTON AND LUDOVISI RELIEFS



HERA OF KANATHOS AND THE LUDOVISI THRONE.

[PLATE V.]

Or all the interpretations of the Ladovisi throne it is generally agreed that none is entirely convincing. For that reason any new suggestions that I have to bring forward here should only be interpreted as an attempt to indicate a fresh line of investigation that may perhaps lead to a more complete understanding of this most difficult of archaeological problems.

At the outset we are faced with the almost universally accepted view that the subject of the Ludovisi throne is the Birth of Aphrodite, with representatives of the cult or devotees shown on the side panels. Once this is admitted the explanation of the details of scene becomes a matter of purest academical or technical dispute. Similarly, the important corollary follows that the Boston counterpart, whatever we may think of its date or style, represents but other aspects, clearly more complicated, of the Aphrodite cult

The interpretation that I have to bring forward here however, by challenging the first and principal assumption renders me liable to the charge that I am wifully indulging in that worst of learned vices—the deliberate circulation of startling theories. I should therefore perhaps explain that the interpretation I propose here did not arise from any determined effort on my part to solve the problem of the Ludovisi throne but rather originated gradually from the correlation of a variety of evidence which reached me quite independently of the main problem.

On the site of Tiryns in the Hellenic stratum the remains of a temple of Hera were found during the course of the German excavations of 1909-10. In and round the site a large number of terracetta figures were found. Most of these figures represented the goddless Hera in various forms. There is, however, a large series representing a very peculiar, and in many ways unaque, type. The goddless is shown as either scated or standing, crowned and with heavy necklaces. In front of her breast she holds a square cloth. In almost every case the cloth stands clear of the breasts, or perhaps just touches. The artist appears to have made the breasts of separate pellets of clay and added

During the apring of this yest I had secondar to that the Minoram at Nauplin. The torresistes, of which I show plant graphs below, impressed up at the time as bearing some our obviolation to the Ladovini throne. Are reading of Pansaulia, coupled with a class examination of the throne early in June.

here express my indebtedness to Mr. A. W. Lawrence of New College, Oxford, for his help and collaboration. It was he who called my attention to the importance of this passage in Pansaghs bere dealt with (ii. 38, 2).

them to the body. He similarly made the square cloth out of a separate flat piece of day and attached it to the hands and body. [Fig. 1.] The square cloth is not a part of the garment worn by the figure, and so cannot be intended to be the overfall of a peplos. In each case the cloth stands clear of the figure at each corner and is a clear-cut rectangular piece of fabric.

The question immediately presents itself as to what these figures represent and what is the special meaning and purpose of the square cloth. No evidence as to an explanation is forthcoming from the site itself and we

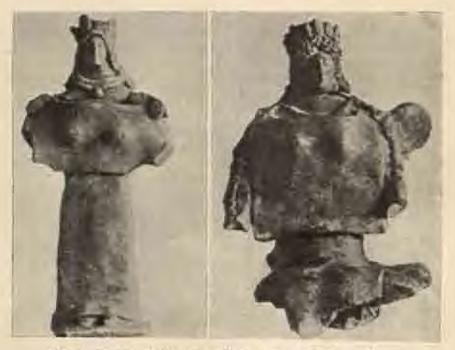


Fig. 1.—Perhaporta Figures of Hera from the Tentle at Tinysis:

must look elsewhere. Most of the best examples of this type of figurine belong to the first half of the fifth century; it is, therefore perhaps, not imappropriate to refer to Pindar for passages that may throw light upon their meaning. In the tenth Nemean Ode the poet sings of Hebe:

κατ' "Ολυμπου άλοχος "Ηβα τελεία παρά ματέρι βαίνοισ' έστι καλλίστα θεών. βραχύ μοι στόμα πάντ' άναγήσασθ', όσων 'Αργείου έχει τέμενος μοϊραν έσλών.

Hebe, fairest of goddesses, walketh for ever in Olympus beside her mother Hera, who maketh marriage perfect. My mouth is of small measure

to tall all the story, to wit, all the fair things of which the holy precinct of Argos hath a share."3

In this passage Pindar clearly refers to the function of Hera as rehela. the goddess of Matrons. In the sixth Olympian Ode he refers to the counterpart of this aspect of the goddess. Hera maplified or Haplievia.

> ότρυνον νύν εταιρους Αίνεα, πρώτον μεν "Ηραν Παρθενίαν κελαδήσαι,

Now bid thy comrades Aeneas, first to sound the praises of Hera as the maiden goddess."

This exhertation is addressed to the people of Stymphalus in Arcadia, a day's journey from Argos.

That these passages refer to two definite cults of Hera as opposed to simple aspects of a literary nature is clear from other evidence. Pausanias states that there was a temple of Hera near Hermione in the Argolid," and from Stephanus Byzantinus (s.v. 'Epikov) it seems clear that the temple was of Hera Parthenos. In the same way it is clear from the description of Arcadia in Pausanias that there was there a definite cult of Hera reheld such as is suggested by the passage from Pindar quoted above. Finally, to make it beyond question that these were definite cults, Pansanias mentions the temple of Hera value at Plataca in which were a statue of a standing figure of Hera by Praxiteles and a seated figure of Hera wundevomery by Callimachus.

Unfortunately we have no representation in art that can be definitely. identified either as Hem releia or as Hera mapheros, unless we identify the Hern in the metope from Selinus as Hern releia or vumperouevy.

In trying to identify the Hera of the Tiryns figures we are therefore driven to adopt the rather unsatisfactory methods of a priori reasoning to a certain extent; The fact that the figures in every case lear a cloth in front of the breasts and that they all seem to represent a fully grown and stately woman seated or standing in a dignified attitude, suggests that the cloth, which is the centre of interest of the figures, is emblematic of matronhood. Immaturity might well be nude, maturity should be garbed. The fact that behind the cloth the broasts are nude only serves to emphasise the distinction. In a word the cloth, which is clearly the distinguishing cult-sign in these statuettes, is the symbol of Hera velsia as opposed to Hera waptions, whom we may imagine as nude or very lightly chal, and, above all, with her breasts uncovered. The figurines thus represent Hera redela, whose worship we know to have been popular in neighbouring Stymphalus side by side with that of Hera mapteros.

[?] From Sir John Sandys' translation. For the meaning of reasts new Close, Rev. av. p. 446. Mr. Rayfield donies that the world vakela in any way connotes "marriage" though he admits that "Hee redels was to Greeks the goddess of marriago rites. Sir John Sandys is charly not in agreement with him in regard

to the meaning of reasin. For another reference to "Hos reasis in the fifth century see Amschylus, Lung 214.

^{*} Paus. ii. 36.

[&]quot; Id. viil. 20, 2.

⁵ M. is. 2 3.

So much for the figures and the square cloth which is their distinguish-

ing characteristic.

Pausanias, in his description of the Argolid, says that at Nanplia there are harbours and a templa of Poscidon, and a spring called Kanathos where, so say the Argives, Hera bathes every year and, by so doing, becomes a maiden; it is this story which is of the secrets connected with the rites they perform to Hera. However much more he may know about this story and the rites be leaves unspoken, in respect for the secrecy of the cult. It is obvious, nevertheless, that this particular cult must have been of the numest importance in the worship of Hera on account of its fundamental nature and because it seems to be a third type of cult in which the other cults of Hera τελεία and Hera παρθένος, sufficiently important in themselves, were to a certain extent combined. The paneity of records concerning it is explained, as Pausanias says, by the fact that it is a λόγος τῶν ἀπορρήτων

We can connect these two groups of facts, then, in this way: At Tiryns we find a cult of Hera which simplicates her qualities of matron in clearly marked and evidently intentional distinction from her qualities as maiden. Within a mile of Tiryns was a sacred spring in which Hera

the matron was transformed each year into Hern the maiden:

What, then, is the bearing of the argument upon the Ludovisi throne? In the light of the evidence set forth above I put forward the suggestion that in the central panel of the throne we have a representation of Hern being raised from the spring of Kanathos by two attendants, prossesses or maidens. Before being let down into the waters she had upon her breast the symbolic cloth of matronheod of the same type as that worn by the Hern of the Tiryns sanctuary. On emerging from the spring the attendants let down the cloth and disclosed the breasts, as though to say. This is Hern the maiden that was Hera the matron. The fact that Hera is not actually nude seems to be a concession to tradition, according to which, in art. Hera is never unde. The pebble-strewn ground upon which the attendants are standing is far more suited to the banks of a spring than to a Greek seashore, which would be better typified by sand or rocks.

In regard to the detail of the figures and drapery one or two points need discussion. The cloth which is being lowered from the breasts is clearly of thick and heavy material. So too are the cloths held up by the Hera figures from Tiryns. The hands of the Hera go under the further arms of the attendant and grip the outer side of their shoulders in the same way as their hands grip the outer sides of Hera's shoulders. The breasts of the Hera would thus naturally be drawn widely apart by the strain, so that it seems unwise to attribute this wide spacing of the breasts entirely to the archaism of the sculpture. The thin gauze-like chiton of Hera clings to her figure because she has emerged from the water.

Once this interpretation is adopted the figures on the sule panels

Some of those figures, such as that shown over later by Panessuss at the Hersson in Fig. 1 (left), seem to represent the Edward (fit. 17.5), which Petrason set upon Taryon and winning was Panes it. 38, 2.

present no special difficulties. They clearly represent either votaries or figures typical of Hera τελεία and Hera Παρθένος. We need not press too closely for a decision any more than we need decide that the Maidens of the Acropolis at Athens are votaries or priestesses or merely suitable offerings to Athena. They were maiden statues offered to a maiden goddess, and our figures of the panels are matron and maiden figures characteristic of the two aspects of Hera.

Ovid an his account of the Falerian festival to Juno, which was copted from that at Argos, describes the procession in honour of the goddess:

'nbi praesonnit solemni tibia cantu.'

The finte was thus not unsuited to votaries of Hern. Our little maid of the side panel, piping solemnly to herself, can hardly be more than seventeen years of age, and the suggestion of Mr. Caskey 10 and others that she is a young courtesan seems as groundless as it is unfair to the artist of the throne. Mr. Caskey's argument that his interpretation as to her humble origin and calling and, as he puts it, her 'lower social stratum,' is evident from the thickness of her wrists and ankles, which, he says, compare unfavourably with those of the draped lady of the other panel, is indeed remarkable; it belongs, I think, to a realm of sculptural snobbery as far removed from the delicate genins of the 'Precursors' as it should be from modern criticism. It has the additional demorit of being untrue in point of fact.

The appropriateness of the interpretation of the lady of the other panel as a figure typical of Hera $\tau \epsilon \lambda \epsilon ia$ or $\epsilon \nu \mu \phi \epsilon \nu \sigma \mu^2 \nu$, seems to me to fit consistently into the interpretation of the monument as a whole. The garments she wears are closely paralleled by the garments of the Hera on the metope from Selinus. Her occupation as a burner of incense in no way conflicts with her identification as a matron typical of the cult of Hera $\tau \epsilon \lambda \epsilon ia$. The Maidens of the Acropolis at Athens bear pomegranates and doves as votaries would do, and yet they are neither votaries nor yet priestesses. There is a certain confusion of idea or absence of clear definition that makes them at once votaries and typical and suitable offerings in themselves. So too with the maid and matron of the Ludovisi relief who are each engaged in occupations characteristic of the Goddess $\tau \epsilon \lambda \epsilon ia$ and $\pi a \rho \theta i \nu \sigma$.

At this point critics will say, 'But what about the Boston counterpart' 11. How does it fit in, if it does at all, to this interpretation?' I can only echo their doubt. It apparently does not fit in. This is perhaps a serious flaw in my interpretation. But I have merely let my evidence carry me to my conclusion. I have tried hard not to let preconceived theories squeeze the evidence into a Procrustean bed of theory so that it will fit well. I can

See G. Dickins, Arregiolis Museum Cutatoque; i. p. 33.

[&]quot; Amera lii. 13-

m_4.J.A., 1918, p. 118.

[&]quot;One objection to the attribution of the Boston throne to the early fifth vectory that has not, I think, been noted before is that the

wing feathers of the Ero- are not of an early type but resemble rather the wing feathers from the Parthesian pediment or from the Nike Temple balantrade. (Cf. wing fragments not 176, 298, 3478-4, 3478-50 in the Acceptain materials at a Privally in 1th Math. 1908, Pl. II 10.)

142 HERA OF KANATHOS AND THE LUDOVISI THRONE

therefore, only regret that the Boston counterpart remains without an interpretation similar to that of the Ludovisi throne. But this at once suggests that to call it a 'counterpart' is in itself a preconceived theory. Is it essential because it is architecturally and structurally similar to the Ludovisi throne, to assume that it is necessarily a part of that throne! That in itself compels those who would interpret the one to accommodate their interpretation to sait the other; and that is bad critical method.

S. Casson.

TELOKLES AND THE ATHENIAN ARCHONS OF 288/7-262/1 B.C.

The object of this article is to examine the latest arrangement of the Athenian archons of this period, made by Dr. A. C. Johnson, Johnson's studies in third-century chronology begin earlier than 288/7 and extend far beyond 262/1, and embrace Delphi as well as Athens; but the period here examined is obscure and difficult, and can be treated by itself, since everyone agrees that there was a break in the secretary rotation in or following 262/1. Recognising that I have proved the absolute impossibility of placing Diokles (the fall of Demetries anywhere but in 288/7, and taking this therefore as a starting-point Johnson has constructed an archon list with an unbroken secretary rotation from 288/7 to 262/1, which exhibits various new features and farmishes a number of facts which were new when put forward, some of these are permanent acquisitions. My exense for examining the period afresh is a recent inscription, not yet utilised (so far as I know), which supplies very important data. For Johnson's list has one obviously weak point; he has a theory that from 270/8 to 268/7 inclusive Athens was subject to Antigonos, and the government pro-Macedoman without a break, and that consequently no archon who belongs to a Nationalist government can fall in this period; and the inscription I refer to begins by making this theory untenable; and ends, so far as I see, by making an unbroken secretary rotation unrenable also. Incidentally, it seems practically conclusive against Pomtow's dating of the Soteria.

I give Johnson's list for reference, adding the numbers of those secretary tribes only which he regards as ascertained. For convenience of reference I shall call the portion 288/7-280/79 section one, 279/8-268/7 section two, and the rest (Chremonidean war) section three. The archeos prior to 262/1 fixed by literary tradition to definite Olympiad years are Anaxikrates, Demokles, and Pythamtos; Diognetos is always, and Gorgias ought to be, regarded as fixed. It is unfortunate that the secretary tribes of all the

⁵ The articles have material, in whole or in pars, are: "Attic archeon from 294-293 n.c.," (Notes on Attic maniphous," ib. 417. "Studies in the financial selumistration of Athens," Am. Journ. Phil.

^{36 (1915), 424.} The archon Philokrates," Class. Phil. 10 (1915), 457; Problems in Delphina thronology, Am. Journ. Phil. 39 (1918), 145. The archon Lysithnides, Class. Phil. 13 (1918), 209.

fixed archons are unknown; Diognetes IV, in Johnson's original list (Class, Phil(9, 277) is a misprint.

Sacron I.		Sucrios 2.		Sucries 1
288/7 Diokles IV	279/8	Anaxikrates	267/6	Peithidemos
287/6 Diotimos V,	278/7	Demokles	266/5	Philokrates II.
286/5 Isaics	277/0	λαιός·	265/4	Lysitheides
285/4 Euthios VII.	276/5	Enboules	264/3	
284/3 Gorgins	275/4	Telokles	263/2	
283/2 Ourios IX	274/8	Thymochares	262/1	Antipatros
282/1 Sosistratos	273/2	Polyenkton VII.	202/1	Arrhenaides
281/0 Monekles XI.	272/1	Hieron VIII.		
280/70 Nikias Orrynous	271/0	Pytharates		
XII.	270/09	Philoneos		
	269/8	Theophile XI.		
	208/7	I.G. ii. 702, 703		
		XIII		

The inscription referred to is a proxeny decrea from Orchomenes in Arcudia for three Athenian ambassadors, Kallennop Mospora [cous] (deme lest), ['Α]οι[σ]τείδημ Μυησιθέου Α[αμπτρέα], [Γλαύκ]ωνα 'Ετεακλέους 'Authanion vi The editors rightly suppose that the object of the embassy was to prepare the coalition against Antigones Conslas prior to the Chremonidean war; (this is cortain, for, as M. P. Roussel has pointed out, the appointment of Kallippos as one of the envoys for the purpose is elsewhere recorded?), but they have not considered the importance of the decree for the history of parties at Athens. For in 279/8 Kallippos son of Moirokles was strateges, and commanded the Athenian troops at Thermopylae 1; and the Orchomenos decree shows that he was a Nationalist and of the more extreme wing; he is not merely associated with Chremonides brother Glaukon, whose record is so well known, but is apparently a more important person, as his name comes first. If an extreme Nationalist was strategos in 279/8, it is quite certain that in that year Athens was not subject to Antigonos or governed by the pro-Macedonian party; she wa free. It agrees with this that Kallippos was commander-in-chief of all the Greeks at Thermopylas; for one cannot imagine the Actolians placing thomselves under the command of a subject of Antigones. Incidentally, the decree furnishes good (though not conclusive) evidence that Bocotia also was free that year; anyone governing for Antigones in Bocotia could never have placed the Bosotian troops under the command of an Athenian Nationalist.

Published by MM. A. Physics and G. Blum, B.C.H. 38 (1914-15) p. 451

printed Syd7, 434/5.

* Para. 10, 29, 5;

^{**} B.C.H. 29 (1913) p. 125. The appointment of Kallippos of Eleman is re-sided I.G. 02 687, a fragment which really belongs to I.G. 686 (Chromonolles decree), and is see

Pairs. 10, 20, 3 - on hypportar street the Athenians) ser alians elgor respector. Pansanius (1, 3, 5) saw a picture of Kallippes at Athens, which may have recorded the fact.

But the Orchomenos decree takes us further than this. The second envoy, Aristeides of Lamptrai, was strategos in the year of Telekles; therefore Telekles year also saw a Nationalist government at Athens. Consequently Telekles cannot be placed in 275/4, one of the three years of this decade in which it is certain that Antigonos was ruling Athens, and no reason can be shown why he should come between the pro-Macedonian years of Eubonos and Polyenktos. But displacing Telekles also displaces Thymochares; and then the whole of section two is in the melting-pol again.

I will leave the problem of Telokles to the end, and begin with the first section. For Athens fell in the early spring of Nikins Otryneus' year and a pro-Macedonian government came into power, as shown by the change of agonothetes; and if that be in 279, Athens could hardly be nationalist again by the time of the 279 elections; it is theoretically possible, of course, but practically most unlikely that the Nationalists could regain power within two or three months of concluding an unsuccessful war. And Nikias in 280/79 will not square with the history of these years as we now know it.

The first section as Johnson has arranged it, assumes that Athens was at war with Antigonos, more or less, from Diokles to Nikias. I assumed this before myself. But I now think it can be shown to be wrong; there were two wars, with an interval of peace. This is the proper and natural interpretation of the decree for Strombichos. This decree first gives the capture of the Mouseion. Then it says kal survielled devices τεί πόλει τῶν πρ[α]γματών και τὰν λοιπάς χρείας ἀπροφασίατως παρεχόμενος δίατ]ετέλεκτε και διαμεμένηκει ἐν τεῖ τοῦ δήμου εὐ[νοίαι]. What business had Athens finished which left this professional soldier with nothing to do but to remain 'in the goodwill of the people'? Obviously, the business of beating Antigonos; the war was over and Athens victorious. Then the decree continues [κα] τοῦ πολέμου γενομένου Strombichos fought well, etc. What was the war which had subsequently broken out? The war which was present to the mover of the decree in Nikins year, the war in which he was engaged; that of Mouekles and Nikins year, the war in which

Dates.—The first war, that of Diokles' and Diotimos' years, went on into Isaios' year, 286/5; for Philodemos gives a fragment of a letter written that year by some unknown writer, which runs \$\epsilon \text{il} \text{ [v]} \sigma \text{vepor} \ \text{rows}\$

^{*} I.G. ii. 1158. [Aper] reduce American Of nonces Kommundie restriction was conjectural at the time, and though Kookley followed it in I.G. so probable, he also suggested the possibility of a.g. [Assested the possibility of a.g. [Assested the Drahomenus decree conders [Aper] reliase extain; and the adiabase of that decree on heatachagly blendify the two. If Aristoidewas important enough to come before Glankon, he must at least have been strateges. I may

and that the mane Aristolder down not occurin any other denue beginning with A, (Leukeners, beams, Lakindar), and is the only name in reduce income in Lampiras, where is occuragain both in the 10h and the 2nd centuries (Presop. An. 1709, 1710). Lakinteides is a 1-13 take name at Athema; the P.A. gives live cases only, two 5th century, one middle (th, two late 2nd (both dense Baria). 7 LG-11: 606, 667; two copies.

έχθίσ]τους κατα[λ]μόψη | Mass[δόνας].* It ended in that year in time for Philippides, in the same year, to distribute corn and wine to the people in honour of the freedom of Athens, and to celebrate his ἐπίθετον ἀγῶνα for Demeter and Kore.* As Johnson points out (I have followed up his hint), there is nothing to show that Ashens was at war in Enthios' year 285/4.1° The first war, then, ended in 280/5. Why? Because Antigonos was waging this war as his father's governor, and as part of Demetrios' war against Lysimachos. Athens' helper. With Demetrios' captivity in spring 285 the basis on which Antigonos acted was gone; he was no longer Demetrios' governor, and Demetrios was no longer at war, but neither did he consider himself king so long as Demetrios lived. He may or may not have made a formal peace with Athens; but Athens considered herself victorious, as she was and marked the event by the decree of Euthios year for Lysimachos' friend Philippides.

Peace probably lasted through 284. Perhaps something may be gathered as to this from the choragic inscriptions of the Apollonia at Delos. Taking only the years of Nationalist government at Athens during our period, the number of Athenians among the artists appearing was: four in 284; three in 279; one apiece in 282, 280, 265, 263. (In 265 Telestes is an Athenian though not so noted.) That is, in the years 282, 265, 263, when Athens was certainly at war with Antigones, one only in 279, when she was certainly at peace with him, three. Therefore 284, with four should be a peace year, and incidentally 280, with one, a war

year. (I shall come to 280 later.)

If the end of the first war depended on Demetrics, so probably did the end of the peace. In spring 283 Demetrics died and Antigonos position because definite. He had to regain his father's dominions. He could not attack Macedonia, for Lysimachos was too strong, he therefore attacked the next most important place. Athens. The two known years of this war are

¹¹ I.G. 21. 2: 105, 106, 107, 108, 111, US. Non. 100 and 112 are broken away, and 110 is a pro-Macedonian year (208), in which no Attention appears.

^{*} rept var gilaroger, V.H. viii. . 3, 7 = Ummer, Epicurea, 133.

^{· /.}O. 12. 657.

^{14:} Chia. Phil. 9, 264;

⁴¹ It seems certain, and is now generally agreed, that Antigeness only took the royal title in 281/3 and not in 280/5 (evidence in my Assegnment Counter, 112 n. 3). The Philodenness transment published in 1912 by A. Mayer (Phile, 71, p. 220) does not beer on this point; hat Kollas (PAlla) 74, 1917, p. 58; written before the war though published 1916) has attempted to found on it an argument for dalum Suthbot 284/8, drawn from hypothenical thing he us to who it was Apolliships was reinting and what it was they said, one of which is not even correct as mathematics. What Apollistories says is quite sliess : Anugonos could not have written the (forged) letter to Zeno in Enthine your, became in these your he was, not only not king of Macedonia.

but not even king at all, of (ve V) size rior' force: Sajora(size), i.e. Enthios comes before 284/3 (which sizes Kobbs accepts for Antigonos assumption of the royal title); and he could not have written it in Anasikvates' year because [breaks off; obviously it ran] in that year he was not king of Maccelonia either he had morally seized a hit of the country, two type-period (arrely) to all a hit of the country, two type-period (arrely) to all a hit of the country, two type-period (arrely) to a property on p. 478 at Antigonia Georgia is wrong, as Kolba points out; but that does not help him. How he recomples Enthios in 284/3 with his acceptance of 277/0 for Polyouktes (see post), which would involve a fee power break in the scoresary manion, I do not know; I may have urlessed some article.

Menckles and Nikias. Johnson put them in 281/0 and 280/79 solely on the secretary cycle. But Menckles, a full war year, ought to come where he was before, 283/2, because of Demetrics' death, unless there is some other war archon for 283/2. Let us look at the intermediate archons of section one.

Gorgias.-His date is fixed by Plutarch, X. Orat. Vit. 847 D, to ten years before Pytharatos, who is fixed to 271/0 by Diogenes Laertins. It has become a habit to say that he was either ten or fourteen years before Pytharates; but this is not accurate. All the MSS, of Plutarch but one read δεκάτω, one, Parisinus 1672, gives δεκάτω Δ, for which Beloch conjectured ic. If therefore, we follow tradition we are bound to put Gorgias in 280/79; if we put him in 284/3, we are merely following a conjecture, and a conjecture as to which we cannot even explain how it came to be converted into our MS, text. The proper course to take is not in doubt. The fact of Gorgias' year is Demochares' decree for Demosthenes; this makes it a Nationalist year and Johnson thinks a war year. This may be doubted, but anyhow, we have seen that 284/3 was probably not a war year, Demetrios being alive. But 280/79 probably was. As Athens was Nationalist by the time of the elections for 279/8, she must have revolted in 280/79, or earlier. Now in spring 280 Keraunos defeated Antigonos, and nearly all Greece rose against him-ownes ferme Grasciae civitates, says Justin (25, 1, 1). These words cannot refer merely to the kind of Peloponnesian League which Sparta formed in 280, as she had done before and was to do again; if Athens and Rocotia held aloof, while Actolia was hostile how could even Justin say nearly all the Greek states'? Athens, then, revolted in spring or summer 280; and the success of this (first) revolution against Antipatros' grandson was marked by the decree for Demosthenes, Antipatros' victim. The Delian choragic inscriptions (wate) also seem to show 280 was a war year.

Sosistratos: or, rather I.G. ii. 673 (three decrees for Komeas, Athenian hipparch on Lemnos), for Sosistratos is a more name, with only prosopographic evidence and can come anywhere in the period under consideration. Johnson conjectured Sosistratos as the archon-name for this inscription, instead of Anaxikrates, as in I.G. ii., because there is a board of administration, i.e. a Nationalist government, and he held that there could not have been a Nationalist government in Anaxikrates year 279/8. We now know from the Orchomenos decree that as a fact, there was But is Sosistratos correct on the merits of the case; Johnson admits that it is difficult to date these decrees in 282/1, as they show good rolations between Scienkos and Lysimachos friend Athens; he supposes that Athens went over to Scienkos before Koroupedion. But it is difficult to credit this without evidence, for in 282 Scienkos was courting Athens' enemy Antigones (return of Dometrico's ashes). In and the idea that friendly relations between Athens and Lemnos must have ended by 280, when

[&]quot; For the date; Antipones General, p. 126.

Ptolemy II. consolidated his power in the Aegean, seems unfounded for there is no trace anywhere, so far as I know, that any relations between Ptolemy II. and Lemmos ever existed. The tradition is clear that Scienkos acquired Lemmos after Koronpedion and gave it to Athens, the actual transfer being made after his death (which occurred late in 281) by Antiochos. It and the third decree on this stone, which mentions Scienkos, does not show that he was alive at the time, for the form of the reference is to a past event. I.G. ii. 673 is in its proper place in 279/8, the first (the Athenian) decree on the stone marking the restoration of the old relations between Athens and her one-time possession; and Sosistratos vanishes from this section.

Our ins.—Now that we have the two decrees for the Tenians, I.G. II³ colo printed together instead of in fragments, we see at once that the second, the one of Ouries year, in the phrase στρατενομένοιε κ.τ.λ., is only quoting the first consequently there was no military expedition by Tenos to the aid of Athens in Ouries' year, as I formerly thought. Mea culpa. All that happened was a Tenian umbassy to Athens to obtain confirmation of the 4th century grant of ἐσστέλεια to Tenos a thing Ptolemy would hardly have vetoed even had Antigonos been ruling Athens. Probably however Ouries still comes between Enthies and Menekles during the peace; for he precedes Euboules, and on his secretary there is nowhere later he can go.

With Gorgias 280/79-and this ought to be treated as a fixed point of the literary tradition-Menckles and Nikias must go backward; and as we have now only one archon between Enthios and Menekles, and his is apparently not a war year, Menekles should fall in 283/2, where he ought to be on account of Demetries death. And the putting back of Menekles and Nikias is confirmed by the history of the time, which, as I see it, forbids us to suppose that Antigonos took Athens in spring 279. The point here is the mysterious war between Antigonos and Antiochos, heretofore most difficult to place.2 which can now be straightened out by the aid of the recent fragment of Philodemos.16 Philodemos tells us (1) that Antigonos made an abortive attempt on Macedonia before Lysimacheia; (2) that this attempt was preceded by (or contemporaneous with) his treaty with Antioches; and (3) that it ended in his expulsion from Macedonia and his taking refuge in Asia (with Antiochos). His war with Antiochos then comes before the attempt on Macedonia. This attempt was already known from Memnon,17 to whom we ought to have paid more attention, as he is in affect Nymphis. is contemporary evidence. The other known chronological facts are that

Phylorete op, Athen vi. 2347 correctly interpreted by Perguines, Hellenian Athens, p. 155.

¹⁸ In A Algoria Geometri, I carried this was on till Lyalmazticia, much teo lata.

^{**} See mute 11. The passage here material rule and the housely a telephone material allowed by the partial at the manufacture and the service apartials.

tellowed by Lymmetein. There is hittendown that that the unknown form (Azed)out is wrong, whether it moreals Mas at some (John on)—the same required—at some level mine. Assunixes should of course be Great saiso.

if Manmon 14. Herrenden bergenien. (Antigmum) von Mandoner Anadiere aggie.

the war between the two kings lasted χρόρου συχνόν. (i.e. presumably more than one sesson), and probably began in Keramos' life time, i.e. in 280. Mayor's historical commentary on this part of the fragment is sadly astray, it was Johnson who saw that ai απουδαί (note the article) must be the treaty between Antigonos and Antiochos—the treaty of the time, for it marked the end of Demetrios' theories of Asiatic conquest and kept the pence between Europe and Asia for generations. This is the key of the thing; and I think I can confirm it. Aratos of Soloi wrote two hymns. The one, ἐπί Πάνα, was long ago recognised as the celebration of Lysimacheia, probably written for Antigonos' marriage. The other hymn, Σπονδοφόρους, the treaty-bearers would also therefore most naturally belong to his time as Court poet; we can see now that it must have celebrated the treaty, and must also have been written for the marriage, the bride being a Scienkid princess and the marriage doubtless a term of the treaty.

The events then are as follows:-Spring 280: Keraunos defeats Antigoing at sea, and 'nearly all the Greek states' rise; Antiochos is supporting Sparta and her League against Antigones, and is getting roughly handled in his war with the Northern League, who are supported by Antigonos; the two kings are therefore at war, though they never meet. Very early in 279 h the Gants enter Macedonia, and kill Kernanes; Antigonos and Nikomedes that spring open their campaign against Antiochos m Asia, who after Kerannes' death allies himself with Apollodoros. Parts of Marsdonia are occupied by various pretanders, Melengros, Etesias, etc., who may be local rather than successive. Late summer or antumn, 279, treaty between Antigonos and Antiochos (before Thermopylae). Antigonos occupies part of Macedonia autumn 279 or spring 278 (anyhow Anaxikrates year, see note 11). Γαλατών ἀπώλεια very late in 279, perhaps December 22 In 278 or spring 277 Antigonos caria rei Maccovias, and retires to the Dardanelles. Lysimacheia 277. I cannot reconcile with this chronology a supposition that Antigones took Athena in early spring 279 and set up a pro-Macedonian governmentfor a couple of months. It may be just possible on paper to fir it in; but I have previously shown elsewhere how weak Antigonos was in resources at

M. Meinnon 18.

[&]quot;This seems to be the meaning of Justin 25, 1, 14 but it is very confused.

It can have nothing to do with the everlaphon who announced the religious truce at a featival, though the Lynn one have treated its subject by sindlegy to Hesis. A seminwhat multar run of everlosses, 754 evertasizes, occurs As. Act. 216, 207.

Pelyb. I. 6, 5 puts the Takaras feetes in the year after Pyrrhos crossed to Italy, and in 280/70.

To get room, Johnson has to lengthen out the whole period from Koronpedim to Lyannachela at both ends. He gets the Gallis invessor too late (see previous note:

Paramita put conly the co-Amin Amvolitates year); and he makes Delphi May 278, on the ground that the Koan decree (Spil.* 398) was not passed till September 278. I think this is misconomized. The decree was not passed in Paramose; the envoys were matracted to service in Paramose; and Paramose at Koamay be a good deal scriber than September; in many Durian states it was May-slane. The decree could have been passed any time in species or ammer 278; and it is curtain that of the defect of the trank was in November or December it would not be known at Kee till March-April. Nowe rarely crossed the sea in winter.

this time. Fortunately, if we date Gorgius in accordance with the MSS, tradition, we have no need to fit it in; everything falls into its place, except the secretary-cycle as from Diokles.

For reasons that will appear, we cannot consider the second section and the problem of Telokles till we have considered the third, which we will take next.

Johnson has definitely proved that Glaukippos belongs to the Chremonidean war; a fact gained. Lysitheides however is not quite in the same category. It has been made clear that his is a Nationalist year, (I.G. ii² 089) and that he must come as close to Hieron as possible; ²⁰ he can therefore belong to any Nationalist period of government, provided it be near Hieron's year; for instance, 277/6. Johnson placed him in the Chremonidean war because he believed that no Nationalist year could some in the period 279/8-268/7, a reason no longer valid.

Next, Peithidomos. His date depends on that of Areus death in the second season of the war. Almost everyone [myself included] has for many years placed Peithidemos in 266/5, with E. Meyer and Lehmann-Haupt dissenting and arguing for 267/6. I believe now that Johnson is almost certainly right in adopting 267/6, but not for the reason he gives ; and as I have never seen even a moderately clear statement of the position, perhaps I may be pardened if I attemps to give one. If anyone will take out Diodoros' figures for the deaths of the Agiad kings of Sparts, he will see that Diodoros uses exclusive reckning throughout; I need not give a table, for there is a correct one in E Meyer's Forschungen, ii 510, which I have checked Diodoros therefore put Arens' death (the passage is lost) in the Olympiad year 265/4 beyond any question. Was this the true year ! Meyer gives a second table (p. 511), which shows the death of each Agrad king one (Olympian) year earlier than Diodoros does, with Areus death 200/5; this table, he says, is correct wenn wir abweichend von Diodor das latzte Jahr einer Regierung als Todesjahr des betreffenden Hernchers betrachten." But we have no right to make such an arbitrary supposition. It does not even work; for Kleombrotos was killed at Leuktra 5 Hekatombaion 371. is in the Olympiad year 371/0 as Diodoros says and not in 372/1 as Meyer says,24 Mover accordingly had to tack on a second theory to account for Kleombrotos - cycle and epicycle scribbled o'er -we must reckon the years as Spartan ophor-years, (which began in the autumn), and not as Olympiad years. All this is hopeless; and the only correct course is to quit theorising and see if we can check any of Diodoros' dates alliande For Kleombrotos, as we have seen, Diodores is right. Agesipolis died in the campaigning season of 380 of a sunstroke suffered ward Bepore asump, is almost certainly July or August, and therefore almost certainly in the Olympiad year 380/79, as Diodoros says. Pausanias was deposed fairly soon after the hattle of Haliarton in 305,28 i.e. in 395/4, a

² Bocame of the parallelism between L.O. ii, 020 (Lysitheldes) and 'Ep. 'Apx. 1915, 1 (Hieron).

^{**} Plut, Ages, 28. ** Xen, Hell, v. 1, 15.

^{18 16.} lil. 5; 25.

year before Diodoros' year which is 394/3. We get this result then; Diodoros right once, almost certainly right once, wrong once. The probabilities then rather favour Diodoros; but Kolbe was right in saying that we cannot get away from a possible error of one year. It will be seen however that, where Diodoros is right, the death occurred very early in the Olympiad year, i.e. in the campaigning season which straddles that year and the year before and not in the season which straddles that year and the year after; or, in other terms in the Roman year which comprises the first half of the Olympiad year, on his equation. Consequently, while Areus' death in the spring of 264 is not absolutely impossible, the probabilities are enormously in favour of it having occurred in the campaigning season of a.c. 265; whether in the Olympiad year 266/5 or 265/4 is, for the purpose of placing Peithidemos, immaterial. Consequently we must put Peithidemos in 267/6.

Next Philokrates, placed by Johnson in 266/5 really on account of the secretary rotation from Diokles: On the MSS, of Eusebies he can go any: where from 270/69 to 260/5; the known facts of his year are, the thanks to the taxiarche (LG ii 685), and the embassy to Athens from Tenedos " Neither of these will place him in the Chremonidean war. The taxiarche are not recorded to have done anything; they only hope ar the apyne raxhe sail rath to be roughly, which cannot be read as a war year. As to the embassy, Johnson quotes me as authority for Tenedox being Ptolemaic in 268.3. If I have said anything to mislead I tender my apologies; but really. I never mentioned Tenedos, or anything but the Islands of the League. Only one thing, as far as I can find out, is known about Tenedos till it appears as Attable in the second contary; but as after Koroupedion Soloukos got both Lemnos and the mainland opposite Tenedos, there can be little doubt on geographical grounds that he got Tenedos also. The thing I refer to is that the statue of Gonnias' queen, Phila, at Delos was set up by a citizen of Tenedos, which proves that anyhow circ. 246 the island was not If Tenedos in Philokrates year belonged to Antioches, and if the embassy was political, then in that year Athens should have been under Antioches' friend Antigones. I attach little importance to this; we know no facts about the embassy. But as we have had, provisionally, to restore Manekles to 283/2, I am going, provisionally, to restore Philokrates, on the secretary rotation; to the corresponding year 268/7, the last year of Antigones' rule in Athens before the Chremonidean war, and see where it leads us to in considering section two. The year 266/5 is then (provisionally) vacant,

We can now turn to section two and the problem of Telokles. This archon has to come before 271/0 (death of Epienrus). The three years 276/5-274/3 are barred, for if there was ever a pro-Macedonian government in Athens it was in these years with Antigonos on the the throne of Macedonia.

beam

Withelm's combination of these two (Ath. Mar. 20, 1914, p. 315) be correct; he does not discuss i) or give his reasons.

⁵ Antigome Cometae pp. 105, 100, 200 anu

⁴ f.G. xi. 4, 1008 · o)pdown Ann [-]/ [T]eve [8] to [s]; a later and fuller reading than that in O.G. F.S. 216.

There are three indisputable pro-Macedonian years about this time. Eubonios Polyeuktos, and Hieron: and it is certain that if Athens was Nationalist in 279/8 and pro-Macedonian a little later the change did not come before Lysimacheia in 277, and could not have come till a little after, i.e. after Antigonos had obtained the throne of Macedonia. Consequently, as Glaukippos belongs to the Chromonulean war, 277/6 is open for a Nationalist even if the change came in the latter part of the year.

I do not think that it admits of doubt that the years 273/2 and 272/1 are also possible for a Nationalist archon. Johnson has treated the events of 273/2-271/0 at length, and not only as regards Athens, for it is vital to him to prove that they were pro-Mucedonian years at Athens; this is the basis on which he has rearranged the Delphic archons. I cannot discuss the question here; it would double the length of this already long paper. I have studied his arguments very carefully, and do not find them convincing ; but I do not want to assert anything without going completely into details, so I am merely going to assume, provisionally, that these years may be Nationalist, for the sake of seeing where it leads us to. This is not to imply that I feel any doubt my self on the subject.

There is no third alternative, that is, we cannot put Tolokles before Gargias 280/79. Theoretically indeed we might put Ourios 284/3, Telokles 283/2 Menekles 282/1, Nikins 281/0; but historically it seems impossible; for then Antigones would have taken Athens spring 280, and also in spring 280 attacked Keramos with land and sea forces. Athons thereon rising again; and the attack on Keraunos alone was a malter requiring Antigonos entire strength and considerable preparation. Incidentally, this arrangement would not preserve the secretary rotation either from Dickles or any later point. Again, we cannot, by putting Menckles and Nikias in 283/2 and 282/1 (where Ferguson, Kolbe, Kirchner, and myself all put them), put Telokles in the vacant year 281/0, for the pro-Macedonian government set up in spring 281 must have lasted till the rising of 280, cc. 281/0 is a pro-Macedonian year anyhow until spring 280. Telokles therefore falls in 277/6 or 273/2-272/1.

The arguments for 277/6, which do not come to much are these: (1) We are sure of a Nationalist government; for 273/2-272/1 this is disputed. (2) Two of the Souherrai praised in Telokles' year (I.G. ii. 1158) were Philippos son of Astygenes of Thymattadae and Nikokrates son of Archomachos of Phegaia, who respectively moved the first decree of I.G. ii. \$ 672 in spring 278 and the decree L.G. ii. 656 in Isaios year 286/5; Telokles therefore should come near these years. (3) In Telokles' year Epicurus wrote to his slave Mys. The best-known (and once famous) letter to Mys is much earlier; " so the earlier we can place Telokles the better. The arguments for 273/2 or 272/1, which again do not come to much, are: (1) The strateges of Tolokies' year was Aristeides of Lamptrai (I.G. ii 1158). who, we have seen was envoy to Orchomenos circ. 267/6; Telokles therefore

²⁴ Tapitar, Epicieren, pp. 148, 413.

should come as near the Chromomidean war as possible. (2) In his year (I.G. ii 1158) the demos crowned certain members of the βουλή, κρίνας άριστα βεβουλευκέναι; no occasion for this appears in 277/6, but a revolt against Antigonos in 273/2 might have furnished one

Here we must break off for a moment and consider the other displaced archon, Thymochares; for if Telokles be moved from 275/4 Thymochares cannot remain in 274/3. He is the archon of I.G. ii \$ 700, an ephebe decree very like I.G. ii. 665 of Nikisa' year, which raises a presumption that he comes before 262/1; and the paidoaribes of his year, Hermodores of Acharma, held the same office in Menokles' year, which makes the presumption almost a certainty. Also he follows an archon with ten letters in the genitive (LG, it. 700). As we left 266/5 provisionally vacant, there are three archous he can follow: Demokles, Telokles, Peithidemon 15. All three are certain Nationalists, and 217/6 and 266/5 are Nationalist years. Also, if he follow Telokles, and we put the pair with Kirchner in 273/2 and 272/1, then, 273/2 being a Nationalist year, 272/1 is certainly one also, anyhow to begin with (Pyrthes in the Peloponnese). So whichever course we take Thymochares is a Nationalist. This is awkward, for the name, though not really rare, is not common, and one has an uncomfortable feeling that any day he may turn out to be Phaidros' son, the pro-Macedonian agonothetes of 276/5. As we shall see there is only one way to remedy this, and it is not a hopeful way. We have in effect to neglect the possibility of his being Phaidros' son; it shows how difficult these archonproblems; are.

Now how can we arrange the two? There is one thing we cannot do; we cannot leave Telokles in the pro-Macedonian year 275/4, sandwiched between the pro-Macedomians Euboulos and Polyeuktes without any reason. There are three things we can do, and one that we perhaps might do. We can put Telokles in 277/6 and Thymochares in 266/5. We can put Thymochares in 277/6, then Telokles must fall in 273/2 or 272/1. We can put the pair together in 273/2 and 272/1. Or we might perhaps put the pair together in 277 to and 276 5, shifting Euboulos. This would put Thymochares in what is almost certainly a pro-Macedonian year and so allow for the contingency of his being Phandros' son; but it is not a hopeful arrangement. For if we shift Enboulos first year of an Olympiall), he can only go to 272/1; that has long been certain. But in his year the veteran Phaidros reappeared in politics; he stood behind and aided his son " who was agonothetes Phaidros had led the pro-Macodonians for many years; and if he was going to return to politics at all he must have done so immediately the pro-Macedanians regained power," which was some after

[&]quot; Middle in the to I did he was

We the contact follow—Asser, as only three fullers seem to be urisidag; Usamer, Epicerco, p. 134

¹⁵ Note to J. W. ic. 700

in P. Cr. 16 USE L AR. supersuphilips and que-

LILE-VOL XL

THE EXPLORE

Note that seton Athens full in Nikusyear, after her long spell of Naturalist governnear. Physics hold office at one 132 (D) 667, 1–53.

Lysimuchaia; he could not have waited till 272/1. However we will pass this over and suppose for the moment that Thymochares in 276/5, i.e. Enboules in 272/1, is possible.

The reader has already doubtless seen the dilemma to which this paper has been tending. Telokles can only go to 277/6 if Thymochares go to 266/5 or possibly 276/5. Of these two dates, 266/5 is only possible if we shift Philokentes, as I proposed, to his old date 268/7, and if we do, the secretary rotation from Diokles is gone. And 276/5 is only possible if we put Euboulos in 272/1, which in turn entails moving back Polycuktos and Hieron; and if we do, the secretary rotation from Diokles is gone. But again if we put Telokles in 273/2 or 272/1, the only alternative to 277/6. Polycuktos and Hieron must again go back; and then the secretary rotation from Diokles is gone. And there is no further alternative. It is therefore no longer possible to suppose that the secretary cycle ran from Diokles in 288/7 to Antipatros in 262/1 without a break; the only question is, what break.

Before coming to this, we must look at the other archons placed in section two. —λαιος is a mere name, he comes before 271/0. L(t ii 702 is a pro-Macedonian year, since Demetrios san of Demetrios of Phaleron ** τῶν προέδρων ἐπε[ψηψίζεν]: this unnamed archon can therefore belong to any of the three years 270/69-268/7, and is placed by the secretary cycle. Of Philoneov all we know is that the year after his (LG, ii², 766) was a pro-Macedonian year, and that the paidotribes of that year, Hermodoros of Acharnai, held the same office in the years of Manekles and Tolokles: therefore Philoneos should come before the Chremonidean war. 277/0 is possible, but there are already three candidates for this year with better claims, since we do not know that Philoneos was a Nationalist year; he therefore probably belongs to whichever of the years 270/69 and 269/8 be not occupied by LG, ii², 702.

Theophilos is an extraordinarily obscure problem. He appears in I.G. ii. 859 is list of the latter part of the century) which does not give his secretary and again in I.G. ii 5, 381 b, where the secretary is Φίλενκος Κηφισοδορου Α— for which Ferguson, on the secretary cycle conjectured A[φισναίος] tribe Apartis, XI. But Αφισναίος is a letter short the gap domands nine letters. The alternatives for this are Αλωτεκήθει (Antiochis, XII.) Αλιμούσιος (Leontis, VI.), Αμαξαντεύς (Hippothontis, X., and Αμυμονεεύς (Hippothontis in the time of the thirteen tribes. On the two former alternatives. Theophilos (If we assume that he is a different archon from him of I.G. in 859) cannot be placed in our period at all; on the two-

Of course in my view the gree-Macedonian Enhanced is impossible to 272/1. But I am neglecting the righbantaly.

[&]quot; Hog miles up. Athon. 1, 157 f.

Seedoimeon in Am. Journ. Phys. 34(1913), pp. 591, 417 (add.); K. Malinxos, Es. Acx. 1913, 113

Alea a otheres Apilealer la himiteri.

⁽Prompt. Att. 14386, trainable rive, 323/2).

Maliceous gives the first two alternatives only; Johnson the first three. But Amendone was accoming perfait done, and lead to happen to have been transferred to Ptolemais; so the changes are that it belonged to Hyppedduntin throughout.

tatter he might go in 272/1 if not already occupied. Kirchner however informed Johnson is that Roussel had read A\$\phi\$ on the stone; Johnson says that he could not see the \$\phi\$ himself, but I gather that he accepts Roussel's reading. If this reading be correct, the matter is settled; there is only one Thoughiles, and he belongs to round about 227/6. If it be mishaken—and "A\$\phi\leftit{\text{Abidvaios}} comains a letter short—Theophiles might or might not be a candidate for 272/1; no one can say, for no one can be sure which of four danotics is correct. In the meantime we must issume that Roussel's reading is correct, and therefore that Theophiles does not belong to this period.

Finally we come to the much-discussed Polyenktos, followed by Historical (year of the Soteria at Delphi); and here it will be necessary in order fully to work out the implications of the Orchomenos decree, to consider Pomtow's dating of 276/5 for the Soteria with 277/6 for Polyeuktos, a dating now followed by Kolbe. Johnson, who puts the Soteria in 272/1 on the secretary cycle, gives as an independent reason that nothing could be done till after Lysimacheia; and Pointow gives precisely the same reason that for putting the Soteria in 276/5. This argument means that there was no 'salvation' till after Lysimacheia; but as the Koan decree of spring-summer 278 (Syll® 398) is explicit that the 'Soteria of the Hellenss' was then regarded as already accomplished, this argument falls to the ground.

Pointow's main reason is his Delphie archon-list. It is however quite certain that we have not yet got any list of the third century Delphic archons, whether Pointow's or another, which we can use with any confidence to date events by, as we can use the Delian archons; this is not really disputed even by Pointow hunself. Who still amends his list every other your. And the various teems of evidence which Pointow bases on his list, with one possible exception. amount to nothing at all apart from the list, as anyone can see by looking at them. We have then to ask what are his reasons apart from the list. They are two. The first is the old argument from the burial of Sotion at Alexandria in the much year of some Ptolemy

m toeseit

Maltern, whose article is a detailed study of the formula ner' shalles, filled in 'Aspandous and par Theophiles in 228,7. Hat in wrote without Vancoing of Romeon's resulting.

at K/50 14 (1914-15) p. 270) erst much ihm (Lyamaganus) word die Sommenstringer moglieh.

⁴⁴ May 265 mg

^{*} Kilo 15 (1917-18) p. 40 this atomatic game Arbeit gotan and nights Abertile confierreight worden barra.

[&]quot;Omiting older lists, there was our or 1013, O.O.A. 1913, 1:55; a coveral edition text year, Kito 14, 256; in 1917 awaynew archona appropriat and were not welcomed, Kito. 15, 40;

a A meral ammunry of these by Pointow in

his introductory mute to Note: 102

[&]quot;The possible complian is this argument; that the property of the Athenian desire of Polyouktor year for the Sotocke (Suff. 108 := 1.57, (12 uses) was Kylerme om af Kydias, and that in the year of the Delphie grabon Kraton the Despisars becomed proxony on blingration agentes, (Sales, \$03). But there to ioithing in No. 103 about gration against a any whice remains ; next it past is to you a why the Delphiameli, . Astalia gove hylernisproxony one might fint its well mass that it was on account of the sure here e death against the tionle; Olerade Paus, 10, 21, 5; it evidently became famoire). But he may case this de aremoney equate Kraton with Polyonkies ; he might be a year bear, or even more

(O.G.I.S. 36). But it still remains to be shown that the Ptolemy of these vases was Philadelphon; against this, beside the style of the vases, is the great anthority of Grenfell and Hunt, who, in their exhaustive examination of the relations between the Macedonian and Egyptian calendars, absolutely dany its possibility; ⁴⁹ quite apart from the discussion as to what the ninth year of Philadelphos may mean. As Pointow has no new arguments, ⁴¹ and merely refers back to the old reasons be gave in B.Ph.W. 1910, 1087, which were not satisfying, we may have Sotion as a proof our of the question.

The other reason consists in an a priori assertion that it is impossible for the Soteria to have fallen in the same year (274) as the Pythia supported by an examination of the term loomidies in the Chian decree for the Soteria (Syll. 402). Pointow's argument is that this would in offeet have amounted to holding an identically similar musical contest twice over in one year; that is, he treats lσοπύθιος as meaning όμοιοπόθιος, - Pythiengleichhelt 44 But this is not the correct meaning, he has himself quite frankly given the very clear epigraphic evidence (I need not repeat it) which shows that it means two topics equal honours to the victor-and has then decided dead against his own evidence. As to the impossibility, I do not propose to argue a priori, but to give a parallel. Some time between 315 and 251 the Argives transferred the Nemen to Argos, and by some date which is probably prior to 251 the Nemva and Heraia had become a single festival; atter they were again separated, but continued to be held in the same year; in 209 Philip V, presided at the Hernia at Argos, returned to Auguon for his conference with the Actolians and mediating states, which took some time, and then, when the time of the Nemea draw near, went back to Argos to be present at the Names.57 This shows that two festivals of resportance could be hold in the same city in the same year separately and without interfering with each other, and seems to dispose of Pomtow's a periors rensming. 36

Kolbe. The accepting 277/6 for Polyeuktos and consequently breaking the secretary rotation in that year, has given a new rotation from 277/5 to 262/1, which need not detain as long; for it involves placing Glaukippes in 267/6. This is an absolute impossibility; for 267/6 was either Peithidemes or (it Peithidemes be 266/5) was not a war year, and Glaukippes (as Johnson has

[#] Hileh Papper, vol. 1 App. 1; me pi 347.

^{*} For the various possulerations involved in the Souns question — Vergueri, Heliconte Mess, p. 104, ii. 1.

Al William the Step

¹⁶ Kilo 14, 277, 250 , Soil? 402 a. 10, Prema verse Sederie melle mede une emm Pythila refebrata — pa—pay es paire.

[&]quot; Kho 11, 270.

⁴⁴ Speed Discreture, beings out sharping the

See Kiroliner's introductory note to Sul?,

[&]quot; the part Are is bet Alexander of Sillyon,

published by Vallardi, Macmorgan 44 (1916) p. 65; see b. 16, rior di dichardid seles van Notries san Apanes ries paragel napilial de vin dyn ed vin Marine and Novies.

⁴ Lavy 27, 30,

The Soluties question has produced a surfacility of editing. The Chian and Athenian buterial screen admittedly belong to the manufactor i but in Syd. the former 1902), edited by Fourtow, is dated a 274, the buter (468), without by Kirchner, is dated e. 275, 4

^{**} Klin 14, 267-270; hargely occupied with be useing the date of Clauselle.

proved, was a war year; ** — unless we like to take the view that the Chremonidean war began more than a year before the well-known resolution moved by Chremonides in September of Perthidemos' year, which marked its inception. Kolbe does give an independent reason for Polysuktes in 277/6, but it is not a happy one und has already been sufficiently refuted. The striking thing about Kolbe's list is the way it mixes up Nationalist and pro-Macedonian archons.

My reason for going into this is that at last we have a definite bit of evidence which seems practically conclusive against 277/6 for Polyeuktos. His year was pro-Macedonian beyond question (sacrifices for Antigones), ** But we now know as a fact, from the Orchomenos decree, that 270/8 was a Nationalist year, a pro-Macedonian archon in 277/6 is therefore prima facis impossible, for the Nationalist government cannot have been overthrown till after Lysimacheia (late 277 at the earliest) and not till sufficient time had elapsed after the battle for Antigones first to occupy Macedonia. The Nationalists at any rate till 262/1, were still much the stronger party at Athons just as they were in Demosthenes' time, and were never overthrown without Antigones intervention. But we now know, as I have shown in this paper; what Antigonos movements were from 279 to 277; he was never near Athens, he was fully occupied elsewhere, and no occasion occurred on which the Nationalists could have been overthrown till after Lysimscheia. The Orchomenos decros seems to have made it quite impossible (if it ever were possible) to put Polysuktos in 277/6, unless some definite and valid reason can be shown for the overthrow of the Nationalist government prior to the elections of 277.

One further remark. In view of the Soteria, it was very necessary to the Athenian pro-Macedonians to show that Antigones also had, at Lysimacheia, brought σωτηρία to the Hellenes. This, as is well-known, was done by Herakleites of Athmonon through a spacially splendid calebration of the Great Parachenaia of 274/3. This festival was the pro-Macedonian countermanifesto to the Delphic Soteria, and it is natural to suppose that the years were identical. A priori, the three pro-Macedonian archors of this period, Eubenios Polyenkhas Hieron, ought to correspond to the three years (276/5 to 274/3) of Antigones nucleaturbed rule in Macedonia.

Now as to the break in the secretary rotation. We have seen that either Philokrates or Polyenkhon-Hieron in Johnson's list must move back on account of Telokles; and that Menekles ought to. A move of one year is not feasible. It would bring Philokrates to 267/6 and Glaukippos to 264/3; both are im-

⁴⁰ Research of the samplines for the correlated Athens and hor allies, I is not a 74. Addition secretary to Zone Search and Athens Searches, L. G. 41 2006.

He mee in the "myromes of A.G. ii).
1883. (Polymeter peri), the Litale Mysteries
1844 year of an Olympiad). See on this
Kiroloice automorphic to Spit. 188.

^{**} Atherm acceptance of the protection to the between war of more a parely religious act, and has no political hearing at all:

⁴⁰ f.o. at 077 (heres for Hamkluto)). Great Possibilities, because of the proportions, adorning the studion, str. Data: Forgum, Klars, 346.

possible, and therefore we should have to assume a second and arbitrary break in the secretary cycle, as well as the break before Menckles. Historically there is everything against it; and it would bring the Seteria to the impossible year 273—impossible because, if the Seteria are not in an Olympic year, then they are certainly in a year of the Pythia.

The list from Meneklus onward must therefore go back the years, as the historical material demands:—Menekles 283/2, Nikias 282/1, Polyeukros 275/4, Histor 274/3, LG, 11° 702 in 270/9, Philokrates 268/7, Glaukippos 265/4, and we are essentially where we were in 1913. There is no other course open. The break in the rotation then is a two years break somewhere between Euthios (285/4) and Monekles (283/2), as I supposed before it is now entirely confirmed by the new facts derived from the Orchomenos decree I cannot explain the break, but the evidence, as it stands at present, is much too strong to allow us to explain it away. I note that Johnson hus to reckon with a two years' break in the rotation of the priests of Asklepios in 285/4 and 284/1.

The result is if I am right) that the main outlines of Forguson's chromology from Menckles onward, which I adopted before, still stand fortified in essentials, modified and amplified in details, and with one important change. Perthidences. But, with Menckles 283/2, the secretary rotation, as I proved before cannot be carried backward unbroken from Menckles to Diokles; and it would have been a tremendous beth to have had an established archon-list with an unbroken secretary-rotation all the way from 288/7 to 262/1. So I rather regret my conclusions in the paper. But our loss is more apparent than real, for obviously a list based on the secretary rotation, when only nine secretary tribes are known for a period of twenty-three years, is not a real rotation, any day ome more name, like Telokles, may take form and substance to disturb it. For many years yet we shall have to go step by step, not be itating to discard our own former opinions in the light of new facts or juster interpretations of old ones.

For convenience I summarise results with certain chronological indications.

283/5 Isaios VI. First war unde spring 285 (captivity of Demetries).

285/4 Eathnes VII. Peace. Decree for Philippides.

284/3 Ourios IX. Peace, anyhow all spring 283 (Demetries death).

283/2 Manchies XI. The second war, resembly spring after Demetries death

282/1 Nikins Otrynaus XII. Athens taken saily spring; change of government. Decree for Strombishes.

281/0 Casadain. (Chans). In 280 Antigonos against Keramos; Antigonos against Antisches (matreally); general revolt in Greece, infinding

³¹ Shewn by the gap in 1. 29 of the Chian Sotieta decree, 2902 402; it unprestimable requires officer Oxforia or Differ, but of course

the decree alone does not enable as to say

^{**} Chier Phil. 4, 254.

	280.79	tiorgus. Decres for Demanthanes, Athons from before the elections			
	Terran .	of 279 at latest, probably in 280. Polaria spoder ourly spring 270.			
		Spring 270, Antigones against Antioches.			
4	279/8	Amerikantes. Kallippus strategia Antigumus treaty with Antiochou.			
and the same		sire autumn 270; he levador Manshmin. Palierus imaken lu			
Nat. troy-		winter.			
	278.7	Demokles Antaganos Massbariar čenistra.			
	10 d d 10	Uncertain. (Taladdes and Lysitheides possable) Thymodiana possible			
	24.4.111	if Telokle be 272 t : Philomore possible but unlikely.) Lysinus-			
		where. Autigones recovers Athens before the elections of 276.			
1	(270/5	Make at a 11 management of Third and			
Pro Mac	-	in polities.			
Klass-	453.4	Polynaktos VII. Docree for Plandros. Pyrrius derians mine spring			
	274.3	Hieron VIII. Sotoria			
40 00 1	1978/E:	Unoceram. Tolokles and Lysithonica possible.			
Nat tiere	020	Uncertain. Telokies and Lysithendes possible: Thymochanes probable			
disputation.		if Taloklin be 273/2			
	221/0	Pytharatea Decree for Demonnares			
Pro Mar	270/00	1.65 m 70g. XII Dimetrion, and of Demotrios of Phalicola, affaire.			
1 800	2437/6	Uncertain; most predably Philomes.			
	993877	Philokrains II. Embussy from (Selenkid) Tenedos.			
	207/6	Polithidamon Beginning of Chromonution war.			
	266/5	Uncertain. Thymochares shines certain if Telakles be 277/6.			
		Thyumchares possible if Telakies be 273/2 or 272/1. Lyaitheides			
Nit there		possible if a varancy.			
	265/4	Climbingion V. Death of Areas in commanding season of v.c. 265.			
	266 3.	Diognotos.			
	2011/2	Uncertain: Lyaithrichie possible.			

It will be noticed that there are seven years marked amortain, and only five mames alletted among them. Sometimes, who should come somewhere in this period, is probably the sixth. The seventh name must be treated as unknown. I am not considering the problem of 262/1, which belongs to the ensuing period.

W. W. Taun.

THE FINANCIAL HISTORY OF ANCIENT CHIOS.

THERE is at present an infortunate hintus between the study of Greek history and the science of Greek coins. The historians, if we except Holm have not had familiarity with Greek coins, and the numismatists have soldon gone into larger questions; they have mostly been occupied with minute details, which no doubt in their way are important. Yet coins give the investigator most exact and trustworthy information; and in matters of commerce and finance are first-hand authorities. My History of Aucusal Coinage was meant to do something towards filling the hintus; but much remains to be done.

At present I propose to treat briefly of the financial history of Chies as exhibited in the coins. I select that city for two reasons. In the first place the importance and wealth of the city, and its close connection with the main stream of Greek history, give it a claim to proference. In the second place the coins of Chies have been so fully and satisfactorily treated of by numisimatists that I need not enumerate or discuss those in detail. Mr. J. Mavrogordate in a series of papers in the Numismatic Chronicle I has arranged them in an order which I am able to accept, and I am justified in building in confidence on the foundation which he has laid down.

The coin-type of the island, the Sphinx, is so closely affected to that it is scarcely varied, save in style. The meaning of this type, and of the amphora which commonly goes with it is beyond doubt Dionysiac. At all times Chies has been noted for wine, a fame which still persists. From the trade in wine the wealth of the island, on which Thucydides dwells was mainly derived. But the island had another natural product. It consists largely of marble, marble of a line white texture, which is scarcely to be distinguished from that of Paros. Through the sixth contury there persisted a family of sculptors who were known far and wide, and were indeed some of the earliest marble workers of the Aegean. The founder of the family, Miceiades, lived about a.c. 600, his son Archermas may be given to about 570, and his grandsons Bupalus and Athems to about 540, being contemporaries of the poet Hipponax. Piny cases this date (Ol 60) and adds that

³ News, Oberes, 1915, 1916. Compute Miss Agrico Baldwire in the Journal of the American Namiamorie Society for 1914, and the great tentilize of Head and Bahelon.

Not. Had. Trrvi. 12. Tille disable I would someone restore as follows:

Out meur irangakper kim aryahteetin alegi Akka sal Aryanese talata és absahdasen.

or topic or very ment of the contract, we may not only add two new posts to Pure at the sate of sme line spaces, but also recover what is pechage the oldest of particul interestions of

they inscribed on some of their statues the distich that Chies was not famed for vines only, but also for the works of the sons of Archermus.

Another source of wealth at Chies was less honourable. The people were notorious slave dealers, and we learn from Herodetus that one of them, Fanionius, did not content himself with importing barbarian slaves into Greece but sold handsome young Greeks at Ephesus and Sardis for service in Persian barems. At all periods the slave trade was the most important and lucrative branch of Greek commerce. The slaves came partly from the barbarian lands in the neighbourhood of Greek cities, Scythia, Phrygia, Thrace and partly from Greek cities which were from time to time conquered, when as a general rule the inhabitants, or at all events the women and children, (the men being slain) were sold to the dealers who regularly followed Greek armies, to provide supplies and purchase spoil of all kinds. Gertain places in particular had markets well supplied with slaves. Strabo tells us that at Delos in Roman times, tens of thousands of slaves changed bands and were shipped off in a day. Chios, Corinth and Aegina at an earlier time were great emporia of slaves.

The wealth of Chics makes it not at all surprising that coinage should have begun early there, both in electron and in silver. The electron was struck on the South Ionian standard of Mileton, staters of 216-220 grains (grm. 14-14-25) which belong to the early part of the sixth century. Mr. Mavrogordate observes that, while in other cities of Ionia fractions of the stater, thirds and sixths, were issued in electron, this was not the case of Chics, the lower denominations being struck in silver.

Whereas in issuing electrom stators Chios merely stood in line with Miletus and Lydia, in issuing silver in the early sixth century, the city stood apart. The origin of silver coin in Asia is worth tracing. In the seventh century i.c. the people of Acgina issued the earliest affver coins struck in Greece on a standard of their own, thence called Agginetan. The idea was at once taken up by other states. The chief islands of the Aegean main, Parce, Coes, Naxos and others at once copied the silver come of Aegma. That they should have copied their fabric, and the rough incase square of their reverse, was no doubt natural. But they went further, they finitated the tortoise in the types of their obverse, not actually adopting that type but using others such as the cuttle-fish which nearly resembled it. And they adopted the Aeginetan weight, so that their money passed with the Agginetan in commerce and is found mingled with it in boards. But not only in the islands were the come of Aegina copied. In the same class with the island didruchus we must place coins of Chica which bear the type of a sphing seated not in an unright but in a crouching attitude, with two incuses on the reverse, one larger and one smaller. Their weight 18 that of an Acginetan didrachin, 192 grains or 1244 grainmes.

That they belong to Chios has been disputed. Mr. Head and Mr. Mayrogardate alike accept this attribution. Miss Agnes Baldwin disputes it.

[&]quot; N.H. EXXVI. II

s call that I say, this

American Journal of Numicocation 1914, vol. 43846, p. 55.

And it must be confessed that alike the fabric and the incuse are different from those later usual at Chios. The incuse is that found on coins bearing a crab as type, and usually given to Cos, and on others of Cuidus. As these latter coins were struck at the same period as ours of Chios, and under the same influence, their resemblance to it rather confirms than disproves my attribution. These were probably the earliest silver come issued in Asia. As Asia Minor was the fountain-head of gold and electron coins for the world, so was Greece Proper the fountain-head of silver coins.

Some of the cities of the west coast of Asia Minor followed suit-Besides Chios, such cities as Cymn, Miletins Toos, Phocaea Insus and Lindus, issued, before the middle of the sixth century, cains on the Aeginetan standard. Now several of these cities were at the time striking staters of electrons, and it is natural at once to raise the question in what relation as regards value the silver coins of Aeginetan weight stood to those staters. The ordinary proportion of value between electrum and silver at the time was ten to one. But at that rate the new silver coms would not fit in with the electrum at all. It seems almost certain, strange as it may appear to the more business-like people of modern days, that cities of Asia struck these instations of the Agginetan silver staters without considering how they would lit in with their electrum issues. It is not difficult however, to find modern parallels. The English Covernment at the time of the Abyssinian war, struck copies of the old dollars of Maria Theresa of Austria because they were readily accepted in Africa though they belonged to a different monetary standard from the savereign and the shilling.

It is probable that the reason for the innovation was that the staters of Aegina had made their way as currency both in Greece Proper and in the Eaxine region. At all times the commerce of the Eaxine was the most important of Greek spheres of trade, and when Miletus and Aegina were rivals in that sea, Milesian electrom and Aeginetan silver might well jostle one another in the markets electrom being more in favour in Lydia and silver in Pontus. When they met, and came into competition one with the other, their relative values would be decided by what Adam Smith calls the higgling of the market. As coins were then a novelty, and the precious metals had hitherto circulated by weight only, this would not be nearly so inconvenient as a modern economist might fancy. When a largain was made it would assually be part of the bargain to state in what particular currency the price was to be paid, and thus ambiguity would be avoided.

However, the Chians soon gave up so awkward an arrangement, and began a regular issue of silver coin on a standard of their own. As the details of ancient commorce have never been thoroughly worked out, anyone who treats of ancient coins, not from the special or numismatic but from the broad or historic point of view comes at once upon a number of questions to which it is very difficult, or even impossible, in the present state of our knowledge, to find an answer. One of these questions is as follows. Most of the Greek cities of the Ioman and the Thracian coasts, when they begin to

issue alver coin in the sixth century or later, do so on a standard of weight which evidently had been long fixed, and which persists in a most remarkable way for centuries. And this standard varies in a curious way from city to city, even cities within a few miles of one another being seldom quite uniform. Sames, Ephesus, Carpathes, Erythran, Cas and many other places proceed thus. In Greece proper, as in Italy and Sicily, this is far less the case : there certain recognisable standards dominate regions or groups of towns The Aeginesan standard, for instance, is dominant and uniform in Greece from Thessaly to Messenia. The Attic standard prevails almost exclusively n Sicily. But on the coasts of Asia Minor and of Thrace there is a curious persistency of local standards. No doubt brancois Lenormant goes far beyond the mark when he says that Greek cities adopted monetary standards in complete disregard of those of their neighbours. But his remark is mearer the truth in Asia than elsewhere. It is possible that, as gold was the chief standard of value in Asia, the cities of Ionia at various times adopted standards with a view to making a certain number of the silver coins pass for one gold unit; and that when the standard was once thus fixed, it persisted. It is generally held that the widely prevalent silver standards of Persin and Phoenicia did thus arese in an attempt to adjuse the value of the silver units to that of the gold units. It may be that the cities of Ionia in their autonomy, tried to follow the same course at various periods. thus obtaining various standards for silver. This: however, is no more than possibility. And in the particular case of Chios, as we shall presently see, more satisfactory explanation is fortheoroing.

The Chian standard for silver, which persists from the middle of the sixth century until the middle of the fourth, is slightly but quite perceptibly lower than those of Euboca and Athens. The drachin at Chias weighs 60 grains (gr. 5.88), that of Euboca 65 grains (gr. 4.21), that of Athens 67½ grains (gr. 4.37). Considering the usual irregularity in the weights of silver coins, it may seem that such slight differences cannot be distinguished in the coimages of various cities, and certainly any conclusions we draw from such variations must be open to doubt. Yet the test, if used with care, is valuable, and quite worth considering in the solution of questions of currency and commerce. Some writers consider the standard of Chois as derived from that of Phocaca. This is, of course, possible, the two standards are practically identical in weight, and the weight comes in at Chios at the time of the great vogue of Phocacan commerce. But I am rather disposed to regard the silver standard, both at Phocaca and at Chios, as derived from Aegina.

By far the most important fact in regard to the silver standard of Chine—and here we reach hed-rock—is that it fitted in with the Aeginetan standard of Pelopounesus and Greece Proper. This we know on definite testimony, on which I shall dwell later, for Thucydides tells us that, in paying the Lacedacmonian fleet in Chian money, the Chian tetradrachin was reckoned as a fortieth of the Aeginetan mina. This exactly corresponds to the fact: a coin of 240 grains multiplied by 40 comes to 9,600 grains.

which is exactly the weight of an Aeginetan mina. The phrase of Thucydides mentions Chian fortieths as a recognised kind of coin; and this seems to imply that the correlation of the Chian coimage with that of Polopounese was not a recent thing at the time of which Thuevdides speaks, s.c. 411, but was a recognised fact. If we remember that the Aeginetan standard had actually been in use at Chios for silver early in the sixth century, I think we are driven to the view that the regular Chian standard was also berrowed from Aegina. When about the middle of the sixth century most of the cities of Asia which I have mentioned gave up the Arginetan silver standard, a few persisted in its use, such as the Ionian city of Toos, Cuidus in Caria, and especially the Greek cities on the Engine Sea. Chios I think, also retained the Agginetan standard, but in a modified form. Instead of dividing the Aeginetan mina of 9,600 grams into 100 drachina of 96 grains, the city divided it into 160 drachms of 60 grains. Thus a Chian drachm would be a of an Aegmetan drachm in weight and volue.

I am convinced, although it is not the universal opinion of annismatists, that when Crossus of Lydia, and after him the Persian Kings, issued coins of ours gold, well known in Grocce as the Crossean and Darie staters, the Ionian cities gave up the issue of electrim and used the gold come of the suzerains instead: It was a natural accompaniment of the Ionian revolt against Pusin in u.c. 500 that they should resume the issue of electrons makey. The issue of silver coin was not intermitted, the King of Persia not having the same objection to the striking of coins in the poorer metal by the Grook vities. The cities of the Ionian League, at the time of the great Ionian toyol), issued electrom coins uniform in incose and weight on the Milesian standard of South Ionia, but each city kept its own type. Those of Chios anturally here the sphinx. I was the first to identify the comage of the League. Chos was its heart and soul, and furnished the largest number of ships to the fleet. After the disastrous defeat at Lade she suffered severely and only by degrees resumed her place at the head of the Ionian states. With the Persian victory the electrum staters of Chies, as of the other cities coased to be struck, and Persian gold took their place.

The question arises what relation the silver drachm of 60 grains (gra. 3.88) here to the electron states of 220 grains (gra. 14.25) in use at Chies during the Ionian revolt. When money was issued by a Greek city in two metals, the adjustment between the two issues took place on one of two lines, which indeed are the only lines tessable. Either the himetallist plan was adopted, gold and silver being struck of such a weight that a certain number of pieces of silver passed as equivalent to one of gold or electron.

From Real Acad (1900, p. 119); Janeau, Rell, Stieff, 1914, p. 1815. Mt. B. Janeau arrived undependently at anular views (Real Superior, 1911). Mr. Symmus has disputed the attribution and ditempted to transfer the whole set of sound to sature of Manuschin.

and Throw (L'Hellerone Prince) as in Morellone, p. 211). This congruent seemto me unpossible (but I am glad to on that Mr. Sterrome accepts the place of u.c. inc. 4 Max-convolute Period IV.

This was the plan of Croesus and the Persians; among the latter the gold darie of 130 grains was equivalent to 20 silver shokels of 86 grains. Or else the monometallic plan was adopted, and both gold and silver were struck on the same standard, one metal being the standard of value and the other fluctuating in worth, the gold exchanging for a various number of silver pieces according to the agus of the time. Athens, when about a c. 400 she began to struce in gold, followed this course, the silver drachm of 67½ grains being the standard coin and gold pieces of the same standard passing as they could.

As electron and silver were not, at Chios struck on the same standard it would seem that the city adopted the bimetallic course, which, in fact, was usual in Asia at the time, and the ratio between the value of electrons and that of silver at the time seems to have been fixed at 10 to 1. The electrons stater of 220 grains would then be equivalent to 2,200 grains of silver, that is, to 36 silver drachms of 60 grains, or to 55 tetrobols of 40 grains. This equivalence may furnish us with a reason why just at the time of the revolt, the Chians issued not the drachm in silver, but the totrobol, or two-thirds of the drachm. Obviously the smaller denomination would usore readily fit in with the electron stater.

Chies after a short interval about a.c. 460, began a fresh experiment in electrum. The city struck staters, not on the old standard of Miletus but of uniform weight with the electrum staters of Cyzeus. They have the type of a sphinx and an amphora, surrounded by a wreath of vine, and were closely similar to the staters of Lampsacus, which also bear the vine-wreath, and which are dated by inscriptional evidence to a.c. 447. Of these Chian staters only one is known, an indication that they were sparely issued. They may be regarded as another had for the trade of the Euxine, which Athens jealously preserved for herself, and probably as an unsuccessful had. We know, from some of the orations of Lysias and Demosthenes, especially from the speech of the latter against Phormio, that the Cyzicene staters were largely used by the Athenium traders to the Euxine.

The abundance and the great variety of the electrum statues of Cyaicus present a problem of which no satisfactory solution has yet been found. That Cyzicus was in the fifth century a.c. a place of moderate importance, though it had two good harbours and a fine situation for commerce, is shown by the fact that in a.c. 411 it was unfortified, and was occupied by the Athenian fleet without rosistance. That the states were merely a local coinage is not probable. The contemporary Cyzicuse silver, for less abundant, was no doubt the regular local manage; but it sooms carrain that the coinage of electrum was issued under the patromage of some higher authority. It never bears the mans of the city,

I may be allowed, though it may be regarded as a digression, to say a few words as to the bearings of these electrons issues of the fifth century.

ii. 238.

[&]quot; Marrogordate, Period V. No. 9.

Thurs place 107.

Cyzious struck staters continuously and in great abundance; Lumpsaeus came in; also in abundance, in the middle of the fifth century; Chies and Mytilene made some effort to come in also, but apparently without success.

Very puzzling is the question whence came the abundant gold implied in this electrimi coimage. It may have come from one of three sources, either from the shores of the Black Sea, to which the gold from the Ural Mountains made its way, or from the gold mines of Crenides in Thrace, whence later Philip of Macedon obtained the supplies of gold which were one of the chief sources of his power. (Until the rise of Macedon, Athens was mistress of the gold mittes of Thrace, and made it a corner-stone of her policy to remain so.) The third possible source was Persia That the Persians controlled great stores of gold is proved by the statements of Herodotus in regard to the Persian tribute probably it came largely from India When Alexander captured Echatana and Persepolis and other Persian cities, he found enormous stores of gold hearded there by the Persian kings. The power which was really at the back of the Cyzicone electrum has usually been assumed to be Athens; and that is the view which I have accepted in my History of Ancient Colunge.12 Certainly the Athenians used the Cyzicene staters for state payments; this is proved by the inscriptions of Athens, as Mr. Woodward has shown in an excellent paper. 13 Sometimes a payment of many thousands of them is recorded. Some of the types too are of Attic origin, such as the Athenian Tyrannicides, Corrors Ge holding the young Erichthonius, and Triptolemus in his winged our. Other types are taken from the coinages of a variety of cities.

It does not seem to have occurred to minimismatists, as an alternative, that perhaps the issue was under Persian patronage. Yet this view has a good deal in its favour. Cyzicus was in the immediate neighbourhood of Dascyleium, the Persian capital of the important Hellespontine saturpy; and Cyzicus, being an unwalled town, would be anable to dely the Persians who occupied it without resistance after the Ionian Revolt. Cyrus the Younger, when he was in revolt against his brother, paid his Greek andreauries in Cyzicene statera. It seems possible that if the Persian kings found the prejudice among the Greeks against the royal daries, which bore the affigy of the Great King, very strong, they may have countenanced a neutral coinage for the payment of mercenaries and the purchase of supplies. It has always been a puzzie why the Great King, who jealously reserved to himself the issue or gold coin should have allowed plenteous issues of Cyzicene electrum; but if he encouraged them for his own purposes the difficulty would vanish.

It seems quite likely that Cyziens was a mart through which the wares of Greece proper were imported into the northern (Persian) provinces of Asia Minor, and that the Persians paid for them in gold, gold which might be minted by she people of Cyziens in the form of electron staters, and so passed on to the trading cities, especially Athens, which supplied the

wares intended for Persia. This is at least a probable hypothesis in a matter in which at present certainty is not attainable.

Athens never adopted bimetallism; and it is clear from the speeches of Demosthenes that in various cities of the Euxine the staters of Cyzrens were regarded as equivalent to a varying number of Astic silver druchmensually 26 to 28. It seems however that in Asia the stater was regarded as equivalent to the Persian darie or to twenty Persian sigh or drachms of silver. Thus Athens seems to have treated the Cyziczne staters on a monometallic basis, Persia on a bimetallic which is just what we might have expected.

The silver coins on the Chian standard were issued without intercaption from the seventh century until the time of Alexander. There were indeed slight fluctuations in the standard to which Mr Mavrogordate calls attention. Didrachnes of an early period are known which weight as much as 123 grains (grac 7.97). But these fluctuations are not of great importance. We are well accustomed to those in most series of Greek coins. And they are easily accounted for if we consider facts seldom sufficiently regarded by manismatists. The ancient moneyer did not endeavour to make his coins strictly of the same weight. Out of a minu of silver he had to produce 100 drachms, 50 didrachms, or 25 tetradrachms. If he somewhat aversid the weight of a few examples he would economize in the case of a few others, to make an average. The methods by which a modern mint-master secures uniformity in the weight of his blanks were not used either in annupuity or in the middle ages.

At some time which cannot be exactly fixed, but which Mr. Mavrogordate on grounds of style, assigns to about s.c. 431, the beginning of the Peloponnesian War, the silver issues of Chics undergo a decided change. Up to that time the stater or standard coin was the didracher of 120 grains, and the most usual coin of lesser denomination was the third of this, the tetrobol of 40 grains. Division of larger units by three was a well-established custom in the maps of Asia. In the case of electron universal. But in the case of silver the diachmal division into halves and quarters of the stater had been the regular custom at Aegina, and with the Aeginetan system came into some of the eities of Asia. But the trinal division still held good in some places, notably at Cormits.

In the new coinage at Chice, the tetradrachm comes in as the principal coin, and the fraction thenceforth used is not the tetrobal, but the drachm of 60 grains. We may perhaps see in this the growing influence of Greece Proper, as against that of Persia.

It is from this period, a.c. 431, and the establishment of a tetradrachmal coinage at Chies, that we may trace a gradual aggression of the Chian monetary system in the north of the Aegean. It is indeed not easy to trace it in detail, for the coinage of the cities of Thrace and the Proporties offers many irregularities, and the changes of standard in the district are frequent and obscure. But I will venture to put forth a view as to the successive stages of the spread of the financial influence of Chies in this region.

 $^{^{30}}$ Thus in my History ψ Access Counge, pp. 289, 290, 1 abstalated free following up the subject

We may distinguish three stages in the process. First, we have the period from u.c. 431 to the expedition of Brasidas in 424. Second, there is the period from 424 to the result of Chios against Athens in 412. The third period extends from 412 to the taking of Athens by Lysauder in 405, and on into the fourth century: in it, the financial influence of Chios grows more rapidly, and with the adoption of the Chian monetary system by the riving city of Rhodes, its triumph becomes assured.

I. B.C. 431-424. The clearest phenomenon of this time is the adoption of the Chian drachm for small coins in many of the cities of the Proportis. The large money of the district probably consisted of the coinage of Athens. But many cities, such as Antandres, Lamponeis, and Neandria, Issue money for local use of Chian weight, as dose Calchedon on the Bosporus. The twincity of Calchedon, however, Byzantium, adheres during this time to the Persian weight for small coins as do several of the cities on the Hellespons such as Cardia and Abydos. It seems, however, that the Chian silver drachm and the Persian tetrobol or two thirds of a drachm were regarded as equivalents; and indeed they differed but little in weight. The Chian drachm then would be regarded, wherever the Perman daric prevailed, as the furtieth of that daric, or of the Cyzicene stater which was its equivalent.

II. B.C. 424-412. The expedition of Brasidas, and the peace of Nicias in 421, which followed that expedition cortainly mark a more capid recession. in Thrace of the Athenian, and an encroseliment of the Chian monetary system. In the whole region from Chalcidice on the west to Byzantinin on the east we find a marked change in the comage as a consequence of the successes of Brasidas. The coinage of the Chalcidian league, issued at Olynthus, begins about this time. It consists of very beautiful coins bearing a head of Apollo, excented in the style of the fifth century, and the inscription XAAKIAEON. From the first it is struck not on the standard of Athens, but on that of Chics. It is true that most numismanists consider that the monetary system is taken not from Chios, but from Abdern. But the Chian derivation is rendered more probable by the fact, that lost at this time the people of Abdera give up their ancient standard, almost identical with that of Chies, and adopt for a few years the monetary weight of Aggins. This they do, according to the exceful researches of von Fritze, during the years are 425 to 400.18 The reason of this sudden variation at Abdora is quite unknown. But we may make two observations in regard to it first that in any case it must indicate a storning away from the Atlantan to the Peloponnesian alliance; second that it lays fresh emphasis on the influence of Chies, ance everywhere the save at Abders,

Wiffering of Ann. Countyr. p. 298. The Persons toroided about 5% grams and as he a little lighter than the Chine framing of 60 grains.

[&]quot;I have tried in prove the equivalence of the Pershar darie and the Cyrismo states by my History, p. 241. But some good authori-

tion, unit at Mr. d. P. Six, will not allow unMr. Allen U. West on the American
Classical Philipped in 1014 present months
thinking that the forme was reconstituted
about at 1-432 Compore my Riscow of
Archael Common, p. 281.

Nomental No. 3.

the Chian standard is advancing. Amphipolis, which used only Athenian coin until the expedition of Brasidas, began then to strike beautiful comes of Chian weight. Thases began to issue silver staters on the same standard Asnus and Byzantium followed suit. Along the whole southern above of Thrace, the stater of Chian weight became the main vehicle of commerce.

III n.c. 412-400. With the last decade of the lifth century we reads a crisis in the history of Chica. After the wreck of the Athenian expedition against Syracuse the power of the imperial city was greatly diminished. and the feelings of the Chians towards her were changed. Just after the Persian Wars Chios had been one of the most eager promoters of Athenian leadership. And at first the Chians were among the most faithful of the members of the Athenian league. But as early us the seventh year of the Peloponnesian war their loyalty began to wane. They made a wall round their city which the Athenians, regarding its erection as suspicious obliged them to pull down." In B.C. 412 they broke into open revolt. The Athenians heard of their defection with consternation; they saw at once the direness of the peril, and repealed the law which provided that the sum of a thousand talents set aside as a resource in desperate straits should be kept intact. But though the Athenians could defeat the Chians in the field, and even blockade their city, they were not able to subdue them. They had too much opposition to face in other parts of the Augean to be able to spare an adequate force. So from 8.0, 411 for a time Chios became one of their most dangerous enemies. In that year the Spartan admiral Mindarus, sailing from Chios procured as pay for his men three Chian alver tetradrachms apiece; and in 400 Callicratidas procured for each of his sailors two tetradrachms a equivalent to five drachms of Agginetan standard. It is evident that at this time the wealth of Chica was one of the chief resources of the Spartan admirals.

At this time, the end of the fifth century, the Chian standard for silver began to spread rapidly among the cities of the west and south of Asia Minor. Unfortunately we cannot date coins with sufficient accuracy to determine whether this diffusion took place immediately after the revolt of Chios or after the taking of Athens by Lysander a few years later. If we could do so, we might provide a valuable cine through a very confused period of history, as to which we are dependent no longer upon Thueydides. but upon Xenophon. We should be able to determine, on solid evidence. which cities first threw over the Athenian domination, and how the revolt spread. Some of the earliest cities to go over to the Chian standard were the cities of the Propontis and Mysia, Calchedon, Parium, Assos, Antandros. and others. Mr. Head, in his admirable account of the coinage of Ephesus. fixed s.c. 415 as the time after which Ephesus uses the Chian weight; but it is unlikely that the change took place before the revolt of Chies. At Sames it certainly did not take place until after the fall of Athens, for Lyaunder was obliged to besiege the city before he could set up there a

is Timer in the

Thue iv. at ..

[#] Hast, of Auc. Commun. p 231

Spartan harmost. Another date is fixed by the accession of Rhodes. That city was founded about s.c. 409; and for a very few years it used the Attic coin-standard, almost immediately going over to that of Chios. At Cyzicus, according to von Fritze. The Chian standard comes in in s.c. 405, with the fall of Athens.

The trophy set up by Lyander at Delphi, in memory of Aegospotami, gives us some information as to the composition of the Peloponnesian fleet at that battle. In the trophy were portraits of a number of the captains of Lyander. Pausanias has preserved for us the names of twenty eight of these. Ten of them were Peloponnesian seven were from central Greece, three from the Asiatic cities Cuidus, Ephesus, and Miletus. Three were from Chios, two from Rhodes, one from Samos. The Samura captain may have been an exile, but it looks as it Rhodes as well as Chios was openly on the side of Lyander. This would place the defection of Rhodes before at 405. Evidently a great part in the lumiliation of Athens was taken by her revolved Ionian allies.

M. Homoile has recovered the foundations and some of the bases of statues 22 belonging to this trophy. The inscriptions on them confirm the statement of Pausanias except that he states that Theoporopus belonged to Myndus whereas the basis asserts that he was a Melian; a very easy misreading of the inscription.

Something must be said as to the relation between what was now becoming in the Aegean an almost international comage and the money of Porsia, which held its own tenaciously in the districts where Persia was still preponderant. The fall of Athens no doubt added to the power of the great vascals of Persia in Asia Minor, Pharmabarus, Tiribazus, Tiesaphernes and the rest. The Persian satraps issued great quantities of silver money in Citicia largely on the occasion of military expeditions, at Tarsus, Mallus and other cities of the coast. And it was all, as was natural, struck on the standard of the Persian shekel or sigles, which exchanged at a fixed rate with the gold daric. When the Greek cities of the south coast, Mallus, Soli, Aspendus in Pamphytia, Celenderis, Side, struck com on their own account, they issued it on the same Persian standard, as did the Greek cities in Cyprus, except Salamis. The Chian weight had no vogue to the east of Rhodes and Caria. This is a dominant and instructive fact.

In the cities of the Enxine Sea, in the same period, the old-established Aeginetan standard is used, even in the case of coins which bear the names of Persian satraps, but the weight of these coins during the early part of the fourth century shews a tendency to fall towards the Persian standard which is quite 10 grains (grm. 65) lighter. And the important city of Heracleia, which dominated the south coast of the Euxine, under its wealthy tyrants sometimes uses in the fourth century the standard of Persia. At Panticapacium in the Crimea in the fourth century B.C. we find silver didrichms of Persian weight.

[&]quot; Nomicona, Part IX.

That in the districts where Greek and Persian influences were in frequent collision, especially in the Propontic region, attempts should be made to reconcile the Chian and the Persian standards was, of course inevitable. I have already observed that even in the fifth century several of the cities of the Proportis struck for local use small coins which in some cases follow the Persian and in some the Chian standard. If, as I have maintained, the Persian tetrobol (s of the Persian drachm) and the Chino drachm were regarded as equivalent there would be an easy rate of exchange. And it is highly probable that this equivalence held. In that case, though we can still distinguish between the Chian or Rhodian and the Persian spheres of influence, yet the juxtaposition of the two standards would cause but little inconvenience. Eight Chian drachms would be equivalent to five Peloponnesian drachms and nine Chian drachms to six Persian drachms. But though these squivalences may have been normal, yet no doubt in practice there were all sorts of agios and discounts in the various markets which we have no means of tracing.

We owe to the insight of Mr. W. H. Waldington, a numismatist who very seldom made a mistake, the establishment of one of these fixed points which to a student of history are invaluable. Xenophon and Diodorus tell us that, after their defeat of the Spartan fleet at Chidns in p.c. 394 the Athenian Conon and the Persian Pharnabasus sailed with their ships to the islands and cities of the Aegean, liberating them from the Spartan harmosts, but leaving them in autonomy, and not trying to subject them either to Athens or to Persia. Among the places thus visited. Diodorus mentions Cos, Nisyros, Teos, Mytilens, Ephesus and Erythrae. As the Greek cities of the coast were continually changing from one dominion to another, these scraps of historic information attracted little attention. But the testimony of come greatly enlarges our knowledge. From just this period we have a wall-marked group of coins assued by Asiatic cities of the coast which bear on one side the inscription EYN and the figure of young Herakles strangling the serpents, while on the other side the several cities place their own name and their civic type. This series of coins demands careful consideration, and it enlightens us in several directions. The EYN stands for συνμαγία or συνμαχικόν, and beyond doubt indicates an actual alliance military as well as commercial. The cities known from coins to have belonged to the alliance are Sames, Rhodes, Ephesus, Iasus and Chidas in Caria, and Byzantium. Since the dissolution of the old Ionian confederacy, after the battle of Lade, there had been no such free league of the Greek cities of Asia. The alliance appened with bright prospects, which were soon clouded by the signing of the peace of Antaleidas in 387. The common type and the common monetary standard adopted by the cities, give us valuable information. The type of the exploit of the infant Herakles is derived from Thebes, at that time beginning to be a formidable enemy to Sparta, and so is definitely anti-Laconian. The weight is isolated among coins of the period. It is 165-177

grains (grm. 10:67—11:44). It fits in well with the Persian system, of which it is a didrachm, and with the Chian, of which it is a tridrachm. Conon is praised by Xenophon for his wisdom in not attempting to destroy the autonomy of the Ionian cities; the result was that he and Pharnabazus were everywhere received with open arms, and the Spartan begeinny completely collapsed.

At this time the Chian monetary standard was, as we have seen fast spreading in the Aegean. That the cities of the League should adopt it was quite natural. But that they should strike tridrachus rather than tetra-drachus was very unusual; and the fact can only be accounted for by supposing that a currency which could exchange easily with the Persian darie and siglos was felt to be desirable. Cyzicus and Lampsacus adopted the type, though not the coinage of the League, shewing sympathy, though not alliance.

The coins may well also have been regarded as of the value of three-quarters of an Athenian tetradrachm; and these tetradrachms, even after the fall of Athens, must have largely circulated on the coast of Asia Minor, and been usual on the tables of the money-changers. But Chian rather than Athenian influence is clearly apparent from the subsequent comages of the cities of the League. The alliance coinage lasted but a few years, as is shown by the great rarrity of the coins belonging to it; and afterwards, almost all of the cities of the alliance, Rhodes, Cuidus, Samos, Ephesus, and Byzantium, struck tetradrachms not on the Attic but on the Chian standard.

But doubtless, from this time onwards, it is rather the commercial supremacy of Rhodes than that of Chios which promoted the vogue of the monetary system common to the two cities.

The next great success of the Chian standard was its adoption by the powerful satrap of Caria, Mansolns, who, on transferring the seat of his power from the interior to the scaport of Halicarnassus, naturally altered the standard of his comage, to make it conform to that of the opposite island of Rhodes. He borrowed also from Rhodes his monetary type, the head of the Sun-god. Not much later the standard was adopted by the people of Cos who about i.e. 360 imitated their neighbours of Rhodes in founding a new city, and removing thither the people of their towns

Even Tees, the only Ionian city which had until the end of the fifth century still adhered to the old standard of Aegina, comes in the fourth century into line with the Chian and Rhodian issues. And the great Persian satraps, Tiribazus and Pharnabasus, when they were roling in the west at Dascyleium and Sardes, issued staters of Chian weight. Some of these M. Babelon gives to the Cilician mints; but if my previous sketch is trustworthy, that assignment cannot be maintained, for nothing but the Persian weight was in use in Cilicia. It seems rather that when these potentates struck money in the west for their own use, or for the hire of Greek mercenaries, they accommodated themselves to the com-standard there in general use. But when they struck in Cilicia, they used the Porsian standard which

was universally accepted to the east of Lycia. As in the fifth century; so in the early fourth, the spheres of Greek and Persoan control were marked by the difference in monetary standard.

When we reach the age of Alexander and the Diadochi, we come to an end alike of the recorded history and of the important coinage of Chies. The island may have enjoyed presperity under the rule of the Kings of Macedon or of Egypt; but after the city had fallen into the hands of Antigonus, the immediate successor of Alexander, it seems to have lost freedom and the power of initiative.

After the fourth century many bronze coins were issued in Chios, and a certain number of small silver coins, drachms of Attic standard, which worked in with the tetradrachms of the Greek kings of Syria and Macedon. But the only large coins which were struck did not bear the name of the city. Of these I will briefly treat.

After u.c. 190, when the Romans had broken the power of Antiochus III. of Syria, Chios, in common with many of the cities of Asia Minor, issued tetradrachms of Attic standard bearing the name and the types of Alexander the Great. It is a curious interstate coinage, the staters of which can be distinguished at once from the coins of Alexander himself by their fabric. They are flat and spread, and bear a subsidiary device to show what city issued them-in the case of Chios, the Sphinx. The timidity which dared not place on these coins any claim to autonomy, but fell back on the tradition of the great Alexander, is remarkable, and shows that there was no longer among the cities and islands of the Ionian roast any courage to attempt, or any resources to carry out, an independent line of policy. These once splendid and energetic communities were thenceforth content to live on the sufference of Rome, and to accept such degree of commercial prosperity as the aggressive and capacious merchants of Italy would allow them. Mithradates of Pontus attempted in vain to muse the old Hellemic paide, and when he failed the world-domination of Rome was secure. Chios had to content herself with a humidrum existence, relieved only by the memory that she had been the hirthplace of Homer and the seat of the earliest great school of scuipture in marble, that of Archermus and his sens. Few cities indeed have done so much for the higher culture of the civilized world as Chies, the source of poetry and sculpture-and, I venture to add, of another product closely allied to poetry, honey-sweet wine.

P. UARDNER:

A STAG-HORN HEAD FROM CRETE

[PLATE VI.]

The currous head which is illustrated in actual size on Plate VI. was bought by my colleague. Captain F. N. Pryce, and me from a well-known Greek dealer at Cairo in December 1918, and is now in the British Museum. It is carved in the beam of a stag's antier, the natural barr or coronet of the



Fig. L. Hark of Spin-iness Heap.

horn representing either a grown or curled upstanding hair, while the longitudinal corrugations imitate banging tresses. The smooth, round base of the shed antier very aptly resembles the top of a man's head (Fig. 1). All these features are unworked. The rest of the horn is curved in the shape of a human face wearing a full beard and turned-up monstaches. Across the forehead is a heavy ridged moulding, which runs into the edge of the beand on each side of the face. Whether this moulding represents the band of a headdress, or a ceremonial fillet, or the rim of a crown, or is simply a decorative device to help the transition from the projecting hair to the receding face, it is not possible to decide, for its details will not bear strict interpretation. The hair of evebrows, monstache and beard is marked with close strictions. The left side of the head (Plate VI.) has its surface perfectly preserved, and here the lines of the beard can be seen engraved on the smooth end of the forehead band. No cars are shown. The nose has been entirely backed away, but the nostril-bales remain. The eyes were inlaid with black and white substances. The filling of one is lost, the other has the iris of white shell or very hard tooth, the pupil of black glass-paste, The neck is cut for attachment to a cylindrical peg. In its base is a circular boring I inch (25 mm.) deep and 8 inch (20 mm.) in diameter; the walls of this are 2 inch (5 mm) thick, and outside their lower edge is sunk an irregular rebate about 4 inch '10 mm.' wide, which is heightened at sides and back in a double curve very roughly out into the corrugated surface of the bair. This rim is broken away on one side. The head itself is 47 mehes (119 mm.) high.

There is no record of discovery beyond the statement that the head was brought from Crote about twelve years ago, and had been in the shop ever since. I have no reason to doubt the dealer's information, for the head was and recommended to us by reason of a Minoan origin , indeed the dealer's son insisted that it must be Turkish. So far as I can find, however, it shows no affinity to any objects of modern Oriental art, and the condition of the material indicates a greater age. The bone is almost petrified. On the other hand it has many points of agreement with Minean and Mycenean works, although pieces of sculpture in the cound of this period are so few and various and so ill-preserved that no comparison of style need be attempted: Minran art is still so little known that a work of high importance, indeed the finest carving that has yet been found, the gold and ivory statuette from Chossos now in the Museum of Fine Arts at Beston, was greated on its first appearance as a forgery, and when the genuineness of the lady's body is vindicated by high authority, suspicion concentrates upon her head. It is as well to leave style alone at present and to confirm comparison to plain mechanical detail.

The most remarkable feature of the head is the fashion of moustache, and if this were unique, it would never be accepted as Minoan. Fortunately it finds an exact parallel in an object for beyond suspicion, one of the gold masks which Schliemann found in the Fourth Shaft-grave at Mycenae (Fig. 2). The turned-up ends are precisely similar, with points running into the edges of the beard. Another useful parallel from the mask is the

Maladal text (1915); p. 287, Plates X -XVI.

method of marking hair, in beard, moustache and eyebrows. The bure chin of the mask, and the tuft of hair baneath the lower lip, cannot be seen in the horn head. The surface has perished there, but it looks as if the heard covered all the chin. No infaid eyes of this type have yet been found in Minoan work though eyeballs of ivory heads are bored for inlay, but it was a common process in contemporary Egyptian and earlier Sumerian sculpture. The full of hair (if it is hair) and the hanging tresses are the ordinary Minoan fashion. The horns in which Paris gloried sepa dylass) were fantastic curls, which were painted even by Egyptian artists in the



Fig. 2.—Colo Mass mos Mrcesia. (From an Electrotype Copy.)

figures of Minous suveys in the tomb of Rekhmara. The love-locks are best shown on the chieftain of the Chieftain Cup from Hagis Triads. A band across the forehead is worn by a terracotta head from Mochlos, and by the harvesters of the Harvester Vase. But these have no long hair behind; it was evidently twisted and bound round the head.

See Fig. 3 below, the bull-lighters from Cursacs (R.S.A. vii. Plates II. 1II.); and the helmeted head from Mycenas ("Es. "Apz. 1888, p. 186, Plate St.

Hall, Aucton History of the New East, pp. 50 ami 293, ante 1.

Seager, Explorations in Mochles, Fig. 21.

The nearest parallel, however, is not in hair, but in certain ceremonial crowns. There is first the crown of the majestic personage from a relief-freeco in a corridor of the Central Court at Chossos, a restored reproduction of which is in the Ashmolean Museum." It consists of a ring of likes within which rises a central flower carrying three large plumes; around the head is a heavy moulded rim or fillet. The same form of crown is worn by the priestess carrying buckets on the H. Triada surcophagus, but no flowers are indicated only a ring of spiral coils which come very close to the curls of the antier-hurr. The horn head has no central plumes but it must be borne in mind that it is not a finished piece of sculpture, but a natural object partially worked to enhance an accidental likeness. In spite of consequent shortcomings, the lack of ears, the illegical joining of forehead-band and beard, the indeterminate nature of the crown, and the general subordination of design to shape, the head still agrees with what is known of Minoan fashion and technique.

It has previously been held that the wearing of a beard was a peculiarly Mycenean custom. But the old man on the Harvester Vase from H. Triada is bearded, and the funeral masks from Mycenae, though probably made totally cannot be separated from other objects in the shaft-graves which were certainly made in Crete. These graves mostly contained Cretan products of the period M.M. in b, that is to say, they belong to a time totarly for the development of a separate Mycenean civilisation, being indeed the graves of the original Minoan colonists in the barbarous land of Greece. The bearded Myceneans elsewhere have no moustaches, in agreement with early Greek fashion. The moustache, then may be Cretan, and the head may belong to the same time as the mask which it so closely resombles, that is to say it is a Cretan work of the beginning of the Late Minoan period, about 1600 n.c. The material is probably not Cretan. The horo is from a shed anther of the red deer (Cerems elaphus), which occurs on the Greek mainland but is not known to have existed in Crete.

As to the purpose of this object, it seems plainly to have been the handle of a walking stick, or in heroic terms, a sceptre-head. The stick would be 13 inches (33 mm.) in diameter at the top, its end was let into the socket in the head, and the joint covered with a metal band which fitted into the rebate on the neck. The fixing is naturally the same as that of an umbrella-handle. An organization is a likely head for a staff, but the sharp edges of this piece which prevent its being held with comfort, are more suited to the ancient sceptre, which was longer than its modern counterpart. The head shows no sign of rubbing. This use would account for the incomplete scheme of the head. Its function was decorative: the antier

! Lydekker, The Deve of Alfr.Lunds, p. 68

[&]quot;Hall, August History of the New Zant, then IV I

Merzenouti Antichi, xiz. (1998), p. 06.
 Fig. 19, Ph. L.

F Hall, Acres A. huislogy, p. 242.

So in the bounty one gold heads inlaid on a silver cap from Mys and (Ko. Asg. 1988, Plate 7) and on the Warrior Vasc.

suggested a crowned head, and a face was curved on it in response to the suggestion. 19

There are no remains of ancient scaptres which are at all like this, "and no sceptre-head has been described by Honoer. In classical art scaptres are never represented without heads; these are birds fruits, flowers or decorative devices. It is not wandering too far from Minoan scaptres to quote Herodatas' description of the Babylonian fashions. Everybody carries a seal and a carved staff, and on the top of every staff is the figure of an apple or a rose or a filly or an eagle or some other thing. It is not their custom to have a staff without a device."

A natural born would be a suitable top for such a scaptre as Achilles had—a supling with its branches lopped, and studded with gold nails.

This view is helped by the modern decorative use of similar objects. A more serious interpretation is possible, whether the head be regarded as an ornament or as part of a statuette. At a meeting of the Helleme Society at which the head was first shown. Six Arthur Evans put forward the suggestion that the antier might have been so used in a cult-figure of a hunter-god such as is already known among Minoan religious emblems. If the burr of the antier in this case representing horns. As a further development of the same idea hosuggested that the drown of the Boston goddess might also be derived from horns. I asked Mr. L. D. Caskey if the crown regarded from this point of view bears any resemblance to borns or antiers. Mr. Caskey very kindly gave me his opinion, that he could see no such connexion, and sent me a new description of the crown and enlarged photographs of the head of which I reproduce one in profile (Fig. 3). There may, however, be some reminiscence of the pulmate antiers of the fallow deer (Cereus dama) in the four curved plates which form the edge of the crown, and more so if the holes which pierce them

[&]quot;I can find an invariant of each treatment to the control art. Mr. R. A. Smith (without experient on openion) suggests comparison with animotic flight." See W. M. Newton in Journ Bell, Arch. Ass. 1913, 'On Palasifithm Figures of Whit. ... oailed Figure Stones. Dr. G. Macdonald calls my attention to some various parallels in the same material antice-bearin of provincial Komen catigut. See Carle. A. Roman Frontier Part The Fort of Numerical, p. 314, Plate LXXXIV.

[&]quot;Schliemani's crystal and gold 'desgyre-spire' new turns out to be a wood-bill (State Coll. My series Could Illine of the Mass. National of Ithius, it. p. 42). The other against scale from the third shaft grave gold and crystal balls, as probably in six of turns pres. This was a seemen grave, and contained in weapon. Sighti-mann was probably right in scienting to scopte shafts critain gold tubes and senie (Mycene and Treyns, pp. 203, 203), the best tube or sheath, inlaid with a spical

stripe in silver with a knob at each cod, from
the fainth grave (Teountas and Mannit,
Wycenson Aye, Fig. 64). Thountas found
several similar abouths, one in the Vapherio
Tomb of trungs with transverse finiting, about
an lock thock (miner, p. 168). A separate
hand (though not from a separer is the
facetted inflict brown and white breezia from
the Maco bearer's Tomb at Chosson (Eruns in
Avenuesiogea, 65, (1913-14), p. 18, Fig. 25.

[&]quot; Hind, 1, 224 (f.

Se Hogneth in J. H.S. 23B (1902), The Zakes Scalings, Figs. 12, 28. Cf. Hall, Aspens Aschaeology, p. 368, Herne the Hanner, and the Minotaur hinself.

The perties of the scown which passion me must in the central excremence which when I wrote the article I assumed to have been originally cylindrical. It is fragmentary and consum at present of two vertical projections — I. D.C.

be regarded not as rivet holes (for which indeed they are too large, by comparison with the holes for gold curls in the hair below), but as formal renderings of the curved openings between the posterior snags of the palmations. These holes, which are open at the top may never have been



Fm; 2—Read of Ivony Statustry at Boston. (Enlarged.)

closed The central projections are probably part of the plume, as in the crowns of the fresco Prince and the sarcophagus Priestess. There is evidently close connexion between the head-dresses of all four examples, but its explanation must wait for further evidence.

E. J. FORSDYKE

AGATHARCHOS.

Though I can hardly hope to justify it, I must record (as having given the impulse to this study) my impression that it was not so much the art of his days, as the theories built thereon, which led Plato to such definitions of the skingraphia as 'essentially servile and devoid of reality and truth,' as 'not altogether true nor pure,' as 'unclear and misleading,' and as 'an inferior coupled to an inferior and producing inferior offspring.'

A bed seen obliquely or directly or from any other point of view will appear different, but there is no difference in reality. he says and further on: The body which is large when seen near, appears small when seen at a distance. And the same objects appear crocked when we look at them in the water and straight when we look at them out of the water, and the concave becomes convex owing to the illusion about colours to which sight is liable. Thus every sort of confusion is revealed within as; and this is that weakness of the human mind on which the art of conjuring and of deceiving by light and shade and other devices imposes, having an effect upon us like magic."

I had long wondered how painters of those ancient days could have been so observant of the laws of refraction that they should have shown the breaking of a line in water, when even in our times so conscientions an artist as Sir Lawrence Alma Tadema gave her full length to a woman standing in clear water. I found the explanation in the Stoic doctrine treating of the phenomena, in the example cited of the semblance of the our breaking in the sea. Now as the stern of a ship is a commonplace in the paintings of the fifth century and the double rudder is an unfailing adjunct, we have just a case where the painter could render exactly what he saw without creating an anomaly. It does not seem unlikely that Apelles afterwards went even further in his swimming Leander, anchanged probably monoknemos, and perhaps also in his Aphrodite Anadyomens. The words of Sextus Empiricus about the different types of phaniasia are these: Those are false whose property it is to create a false impression, like the breaking of the par in the sea and the curtailing we should say foreshortening) of the gallery.

Now it seems evident that the Stea based the theory of the appearance of the charracia on the observations of Demokritos, whose gifts in this

[·] Phanio, 10 n.

E Hays. 533 m.

Critica, 107 c.

⁴ Rep. 600 m.

^{*} Rep. 598 A.

^{*} Rep. 802 c.

[&]quot; Rext Empl vil 1 144

respect are pointed out by our authorities. They even record anecdotes that seem more appropriate to some Sherlock Holmes than to the philosopher who excogitated the theory of the atoms. He himself refers to a predecessor, Xeniades, for the fullaciousness as well of appearance as of opinion."

But this did not hinder him in studying these phenomena, and we know from Vitenvius? that he and Anaxagoras wrote about the first law of linear perspective, the radiate retreating of parallels to the point of view. And as in what we know about Amazagoras nothing else is to be found that could point to the art of painting and his interest here seems to have been purely mathematical," I turned to Demokritos in the hope of finding something more about his interesting theories amongst our fragmentary pieces of evidence.

I was not long in learning that he wrote an 'Astroypudia," and that the Greeks under this heading used to treat of perspective, as may be seen in Euclid, the fragments of Damianus and the excerpts of Geminus.12 But there was more. Diogenes is further cites among his works not only treatises. weed also θησέων. On Perceptions, but also περί γροών. On Colours, and περί Corporation, On the Art of Painting. Of the last unfortunately, all samus lost. It is the more to be appropriated that we have what must be a rather extensive, though not exactly sympathetic, extract of his theory about the colours in Theophrastus' book on the senses "

We know from alsowhere that our philosopher denied the material existence of colours, establishing that their appearance was an effect due to different properties of the elements." It seems probable that the classical example of the Stoa, the pigeon's neck in movement is due to him. though we lack authority for the supposition. Our full text reads thus: Demokritos says that by nature colour is nought, the elements being neutral as well the full as the vactions; that mixtures of these are coloured by array and by rhythm and by situation, whereof this is order, that form, the other position, and that thus from these are the impressions. That from these colours of the impressions there are four varieties of light and dark, warm and pale. It is thus we have to translate hereon (white) by light, maken (black) by dark, έρυθρόν (red) by warm and ώχρον (ochre-coloured) or rather

^{8 7}d 41t, 1, 289.

^{*} Vitravius en. 11. Namque peimum Agathirebres Athents Assemble decembe trapediam waemm locit et de co commentacium reliquit : ex co moniti Densocribio et. Amazagoras de cadam re occiparant, quem ad modern operiors all aciom conforms radiorunque extentionem certe leco civilia con atilista lineas calline safurali respondere. nil de certa re octue imaginer asdinemeum in sommorum plotario rediferent specium et. quest in directly plantague frontibus sint Bearata, alle absententia, alse promunatie ii videntin.

of Proche ad Burthel it p. 19 (ed. Back)

of Diog. Leore in Co.

in pulbriud. Briefign auf Kennens der Linksquerspective in the princhisches Kans, p. 49. R. Schöne. Demining Schrift aber Opril, passin.

^{10 (0) 40 48}

HI TRIE

¹⁴ Ittala 125, Act. 75, 8 (I), 3141 = Stote. Edding Phys. 1. c 17, p. 301 Amounton escribale piglie eleas product the pie had eral-Reachema, ra se entra cal to norde call it about symplicars explicates herest or and follow he egorjash, die hi jale dore edhie eh 86 oxidan h 86 Mair want takta yan partarlan taktur da тые едія тен фончаліся униципан скотирен al Suspensi Access acharer épulpes aypos.

4 Ding. (2, 88 (Pyrzhan).

phopos, as Theophrastus has it by pale. Demokrites is not the first to make this division of colours, but only follows Empellokles and the Pythagoreans, and it is evident that as we do not translate \$\tilde{o}\lambda_0\$ by used, where the philosophers have given this word the more general sense of matter, so we have no reason for misunderstanding where they make a similar use of terms, that originally designate a special colour. There is, it seems, but one circumstance that has prevented students till now from seeing the truth in this matter, that is that the great painters of the fifth century and even later seem to have had a preference for a scheme of red and other; black and white, a reduced choice of colours not dissimilar to that of El Greco or Nicolaes Maes, the Greek aspect of which we may know from several white ground tokyths in and a few other vases.

But though the work of these artists may have had some influence in the choice of the philosophic terms, and perhaps in inducing the writers on are to overlook as unimportant the exceptions to the general principle, which did not fail in the paintings they had in view, there is every reason to distinguish clearly between the philosophical terms and the pigments of the painters. Demokritos does not speak of the white Melian earth of the artists but, according to Theophrastua.18 says that white is smooth because what is not rough neither gives shade nor is impervious, and that the like is all bright. So the bright must be permeable and pellucid And he goes on to expound this theory. Then treating of the black (not the tryginos, the blue-black colours made of the sediment of wme's he explains that black comes from the opposite, the rough and uneven and unequal, casting shades, neither the pores nor the passages being straight and so on. Yet we shall find that his black is practically a very dark blue and may stand for the group of colours which we would arrange around blue. Red further is not to him the Sinopic earth, considered as the finest vermilion, but "the red," he says,21 consists of the same as the warm with the exception of the hottest.' And he goes on to show that we get red when we grow hot, as does from in the fire, if this is not too intense.

Lastly he passes in silence the Attie ochre, but gives an all too short exposition. that lies open to the criticism of Theophrastus, of how the pale originates from the solid and the vacnous, though we shall find that he does not think of grey but of the yellow group. After having thus explained the nature of his four simple colours he goes further than we know any of

Edm. Vockonstodt, Genetichts der grisch. Fark-niebre, p. 5 (Stob. Est. phys. t. 17. p. 364) and p. 7 (Plut. Plac. Phil. 1. 15).

J. H. S. xvi. (1896), 74, 1V; xix. (1896)
 Pl. H. Ephem. 1886, Pin. 4, 1965, Pin. 1.
 W. Rieuler, Wassermalige act. Leogther,
 Tat. 4a, 4a; Bonner Studien, Tat. XII.

[&]quot;Theipheratur, 73 Acres per ner element Acies. I yels be all rough and descending and burdlebox of receiver was Acceptive alon. Acids and reference and Large of any other

[&]quot; l.c. 74. To 14 medias de vier desprime de ryaxime en suncipios en desquime ubra yas de sunciper en non réduis elem rais sépans abbl' eddichnes, n. ... A.

[&]quot; f.c. 75: Epolish & of clarges on bequies,

When To be propped in the stepens and too

his producessors to have done in expounding the composition of the other colours from the elementary. So the colour of gold and bronze consists of white and red, having its brighiness from white and the ruddy from the red, the red falling by mixture into the interstices of the white.23 It is apparent that our author no longer deals in theory, but speaks here of mingling pigments. The fact grows more evident when he adds that the most beautiful colour is obtained by adding some pale, more or less according to the need.' We might hesitate at the first prescription, if we did not know those South Italian vases on which metal shields and helmets are practically painted in red and white. And we shall find no difficulty in understanding that he se composes purple of a larger proportion of red, a brifle of black and a middling quantity of white.

But our wonder is aroused when we learn that he wants to compose the blue colour of the word (Isatis timetoria), wherewith the ancient Britons used to paint themselves, 'from black principally and pale colour, with a larger part of black," and lock green of this same; would (blue) amt purple, or of pale and purplish," adding that from the same is the colour of sulphur." that is to say pure vellow. And our astonishment is not abated if some of the following analyses are either easier to understand or manifestly wrongly rendered. It is evident that, bowever bluish may be the puture of the black pigment in use, if you dilute it with whatever yellowish colour you like be it real other or even a more greenish matter, you can never have blue, but only some sort of green and that, even so, mixing blue with purple is as anable to give green as other (chloron) with a purplish colour, or something similar, to give pure yellow. It is no wonder that Plato, explaining the colours nearly in the same way, mixes black and white to obtain bine >

I have long been at a less to solve this difficulty, though I think that I have at last found the way out. As we have to make a digression before we come to the conclusion, we cannot leave this subject without noting that Demokritos, in one instance at least clearly refers to the work of the painter when he mentions that 'dark blue is on rounded and spitlike forms in order that the gloss may be shown in the black, 20 that is to say that the lights on black objects are painted in dark blue. This may remind us of the demon of decay in Polygnotos' Nekvia, whom Pausanias describes

W A.C. 76; Olar ed new youdouble and ed roc rateoù sal vio ve ramirro de rei tenen cal esa doodpoor to his you amendo from is too henrou, eb be brepulpus find out doubore win. your ryan ele the seem too Account of piles the daudula das la recevión rocces da ghaple placedor to randieror grains, dete de mapos Too Asses the reruptive elect . . Assessment L' forester rat redor to their sai l'harren han-ALENE.

⁼ Lr. 77 19 % rephanción de Asunsii sul person and forespood, and original entres therein тий броброй, шаран 21 чий механог, истер бе той

at the The & fourte de patience rejulier en: ead Akminii, aktin Semingo Iyine son atkasar.

Tie.: To de spisione de coppeque au vila sacredon. A de Abantar unt wordpropositiones.

⁴ l.c. : Ta yan belor elsar empres sal persyste тей Хиктрой.

From (181 - Saure & Ri hennie Lieuthin uni sie uthar excuente foreade margie resultes reasons over an il Asony esperantion y harmer

[&]quot;Timophe. Le. 77: 18 80 avannir 3xn harve de rempepio cal desgenishio Sous eb Tribbur To winant fee:

184 J. SIX

as having the colour of the flies that spoil the meat. It certainly confirms what we observed about metallic objects such as helmets and shields being painted in white and red, and teaches us that these colours were laid down beside each other, not mixed.

Plato, as we have seen, has a similar theory and he often seems to be in accordance with or reacting tacilly from Demokrites. The ancients have expressed their wonder, that he never even mentions his name, though we may safely conclude that his theories were not directly known to him; for the sage from Abdera himself declared: I went to Athens and nobody knew me. " So if there is no direct relation, we must look for indirect influence, and it so chances that there is an invective of Plato. against art which may help us. I have passed it on purpose to bring it forward here. The painter, he says," brings forth a world in a short time and at little cost. Now painting was not generally thought such an expeditions art, and the only painter we know of anterior to Plato, who boasted of his rapidity, and is said to have been rebuked for it by Zeuxis " in his old age, about the time he had been decorating the house of Alkibiades, is this self-same Agatharenes. He was the first to see laws of perspective, and to write upon them so as to attract the attention of Demokritos, as we have seen.

We know little about his work, but the fast that he made certain observations when painting a scene for Aischylos, may show us our way. Scenes to be convincing ask for a peculiar handling by the descrative painter. as well in the perspective of line, as in rapid strokes of the brush, and especially in vividness of colouring. Our modern decorators obtain this by liberal use of complementary colours, using, for instance flaring red strokes to enliven the green of shrubs and trees. Now if Agatharchos should have unde some such observations (as is not incredible if we consider the fact that the brightness of the red in the mane of a marble horse," on the Akropolia of Athens, is enhanced by blue intervals) we may hope to explain how, on what he had found, Demokritos could have built his theory. He could thus know that other which is a complementary colour to bine, would give to black a blue tinge, and he would have had the more occasion to make this observation if the black pigment in use were, as it practically was, a dark blue. Even so the slightest hue of greenish in the blue of the would or the colour, whatever it may have been, used for the chloron would turn more towards green if supported by complementary purple; a cooler violet would turn a yellow colour brighter. The ancedote is well known how Delacroix discovered this truth anew, when, despairing of giving its value to a yellow drapery he went to consult Rubens at the Louvre, and was struck at his own door by the effect of the sunlight shining on a causry coloured cabriolet. which taught him to enhance his yellow tolds by violet shades

Pliny, who often has such excellent sources, giving in a few words the quintessence of an artistic principle, tells us that the painters used (pure)

[&]quot; Blog. Lagra (z; ig)

¹¹ Sophie 213 a

⁼ Plut Periot 12

¹⁰ Dickins Chr L, no. 160:

⁶ C. H. Stranshan, A History of France Passing, p. 203

colours exciting each other (evidently complementary) before they came to mixing them to transitions: Tandem se are ipsa distinct of invenit lumen alone umbras, differentia colorum alterna vice sess excitantes, postea deinde adjustus est splendor, alius his quain lumen, quod inter have et umbras essa, appellorum tonon, commissairas colorum et transitus harmogen. Now this latter stage corresponds to the art of Zenzis and his master Apollodoros o exacypados. and as we know this word does not mean so much shadow-puinter as painter of perspective, examéypados. and as so good an authority as Aristotle is tells as that it was Sophoeles who introduced the exameypadia, the painting of scenes, into tragedy, it looks as if it must have been Apollodorus who painted the scenery for him:

So Agatharches, who before that painted a scene for Aischyles, must have preceded him in observing the large of linear perspective, and must have been the painter who first used complementary colours to obtain the effect required by this art.

It is in vain that I have looked for traces of this principle in the antique paintings that have come down to us. Still it is hardly possible that the method, so wonderfully handled by Piero della Francesca, Michel Angelo and large groups of most modern schools, should have been quite unknown to the animents. The marvellous head of a cherub in St. Maria Antiqua, dating from 705 a.t., which looks so rosy, though modelled in light sea-green with a few patches of brown-red, does not stand quite alone, and the monk Theophilus gives a general receipt for painting flesh on a layer of green.

I have no doubt that a closer research than I could make, in remains of attrient painting, will reveal traces that escaped me. I need hardly add that usither Agathurchos nor Demokritos can have thought of mixing pigments to obtain such results, but of the nature of things producing by diverse combinations of simple causes very different effects. The opalising in purple and green of the pigeon fits in exactly as the example we desire

Now as this first scene of Agatharahos marked an epoch, we must expect, considering the coherent evolution of Greek art to find reminiscences of his perspective in the Attic works of the fifth century. The reliefs of Trysa, also so rich a reflection of the art of the great painters of those days, will most probably not fail to contain them.

What we find here is a palace or a temple in the rape of the Leukippids and another in the besieged city." but much more prominent are the towers

F N. II. EXXV. S MIL

Pfuhl, 'Apollodorus 4 asseyesson, July back, xxv. (1910), p. 124.

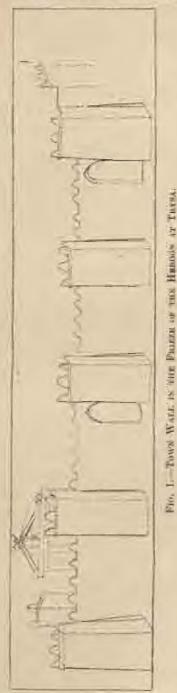
⁼ Post, iv.

Wilpert, Die com, Manules and Mulervien, Tat. 156.

Benndreff, Dav Hersen von Gibbarchi, Tryon, Tal. XII., XXII.; Jesseph Wilha, France Rich von Hersen in Gipharchi, Tryon, Tal. 10 and 5-8; Brunn Bruchmann, Doubmaler for a. R. S. Afron, no. 680. My son Gips, who abulles architecture, made this figure for who abulles architecture, made this figure for

ine from Beandard's plate corrected by the photographs, malicating in broken lines what could be restored with certainty or was most probably indicated by painting on the original. Studying the exact focus of the akreticition in the temple, his attention was drawn by some forms in the tympangu. As he had skatched them I could not fail to ecognise the best of a waged again, archaic in form, some Nike, as that of Archarmon, or a Gorgon, as in the lample of Corfu.

and the town wall in front and beyond (Fig. 1). I do not want to lay stress



on the coincidence that next to the foreshortened gallery, which is what a classic temple will show when seen from the side the State doctrine treats of the tower in the distance because what is pointed out is that it seems round, even if it is square, and this effect fails in the Lycian frieze. What I do want to lay stress on is the evidence which Aischyles himself affords in regard to the scene which Agatharches painted for him. Neither the Vita Aschyla nor Cramer's Anerdota Parisina gives more than generalities, but I was not long in finding that Reisch." had picked up the clue. He draws attention to two passages in the Seven against Thebes, v. 549, where Etcokles points to the towers:

Hopyons απειλεί τοῖσο α μη κραίνοι θεός, and 822-4, where the chorus prays: O great Zens and deities, occupants of the town, shield these towers of Kadmos

> ώ μεγάλε Ζεῦ και πολιούχοι δαίμονες, οἱ δὴ Κάδμου πύργους τούσδε ρύεσθε.

And he concludes thus: Da uns aber schon für 458 ein entwickelter Palasthau als Schmuck des Spielplatzes bezeugt ist, so ware nicht ganz undenkbar, dass auch in den Sieben mem Jahren früher bereits wirkliche Türme aufgebaut waren, etc.

He must be right in the main that the towers—and we may add the walls and gates—of Thebes stood out as a background to the charus and to the dialogue of Eteocles and the messenger, but when he supposes them to have been built, this is somewhat ambiguous. We will of course have to assume that they were erected in the same kind of materials as a tent, whence the name examp, but as a flat screen cut out and painted, so as to give the illusion of the

towers which defend the town wall, standing out against the sky much in the same way as on the frieze of the besieged town in the Heroin at Tryss. And if we read the tragedy once more with this insight, we shall not fail to find other places that grow more pregnant in their meaning. The chorus says (v. 240):

τανδ' ές ἀκροπολιν, τίμιον έδος, ίκοπαν.

How amazing must have been the first eight of it to the Athenians, who had never seen the like, and by what a glorious undertone it must have sustained the words of Etcokles in the prologue, when, concluding his appeal to the citizens of Thebes he bids them 'hasten to the battlements and the gates of the towers' and; 'be not downhearted, lingering on the outlets of the gates (v. 30 ff.);

άλλ' ές τ' έπάλξεις και πύλας πυργωμάτων δρμάσθε πάντες, σοδοθε σύν παντευχιά, πληρούτε θωρακεία κάπι σέλμασι πύργων στάθητε, και πυλέω έπ' έξόδοις μέρνοντες εὐ θαραείνε.

Let us not forget that the walls which Themistokies began after the sack of Athens by the Persians were not complete until in 465 Kimon restored the southern wall of the Akropolis out of the prize money of the battle at the Enrymedon, and so brought the fartification of Athens to completion. So we shall not only appreciate the more this tragedy as a song of the wall held against a sevenfold enemy, but see more clearly how cleverly devised the pageant of a town wall was for the festival of Dionysos, whose sacred precinct lay at the foot of the slope on which still gaped the wound that the Persians had inflicted. Those who have seen Royaard's scenery to Shakespeare's Turdith Night will not doubt of the artistic ment.

Shall we say that Aristophanes alludes to this scene when the chorus in his Frogs thus invokes the poet (v. 1004):

άλλ & ερώτος των Έλληνων πυργώσας βήματα σεμνά.

I doubt the coincidence though further on Aischyles himself first speaks of this tragedy (v. 1021):

δράμα ποιήσας 'Αρεως μεστών: Dionysos: =οῖων Aischylos: τοὺς ἐπτ' ἐπὶ Θηβας:

Still, it would well fit the style of the comedian to suggest to the people of Athens the memory of the first scene erected some sixty years ago, of which their fathers must have told them, and when they expected to hear of towers of painted lathwork to turn to metaphor and say: 'of lofty words.'

les di six

We cannot at course know exactly how Agatharches disposed his wall and gates and towers of Thebes behind the orchestra, but I for my part would suspect that what he showed was not much different from what we have in the besieged town in Lycia and that even his towers, just as at Trysa, may have had each its own perspective, not one in common. The alternative is a very similar, but erroneous, contrivance which is seen in the foremost of the five walls of the Athans of Theseus in a Pompeian painting in (Fig. 2). We



Fig. 2.—Thisses and Peneminical Science The Walds of Athens (From a Pomprise Wall-painting.)

still use his method in painting panoramas giving all objects their own linear perspective. The Campanian wall-decorations of Man's First Style follow the same system, and with good reason, on account of the short distance at which they were seen. Such was certainly not the case in the

^{*} Arch Zeit., 1870, Tal. XXXVI., I. malers in Pempeii. Tal. III., Case del Mau, Geschiches der decorations Wood. Laborinto.

Asheman theatre. But as the spectators had to see the screen from such very different distances and heights, and at such divergent angles, it still seems probable that an average remdering of the foreshortening would best suit the largest number of people in the theatre. I doubt not that musophus mented ameient famoy would have been servinely content with this contrivance. There certainly lived in Athens no Demetrius to claim that Etsokles and the maids of Thebes should be within the walls, as in the Muleuminer Night's Dream he wants the man in the moon to be in the lantern.

Years ago some friends and I, then schoolboys, painted scenery to the Merchant of Venice, and we were much, and not agreeably, surprised, when it was set up, to find the effect so very different from our intention. We saw our error, but had not to find the remedy ourselves. Must not Agathocles have learnt a similar lesson when he first crocted the towers which he had painted, and saw them standing out on the deep blue sky of Athens ! And is it not likely that this decorative art, by its size and by the distance from which it had to be seen from the very first forced him who practised it to broad painting, and to an emphasis of colours as in the gaudy raiment of the theatre and its exaggeration of gesture and expression?

It is more than credible that Aischylos in 467 found the voting Samian painter willing and able to create his fruitful innovation, such inventions mostly falling within the scope of an artist in his prime. If we assume that Agatharches was born about 490 we shall probably not be far amiss. He would then have been over virty when Alkibiades held him no prisoned in his house for four months to compel him to paint a decoration which he was not willing to execute. It assume that Brunn and Overbock are right in dating

As to the nature of this latter work, the oldest house decorations at Pompeii, though their style is based on the same perspective principles, are purhaips rather too late to teach us. I would expect some simple perspective contrivance like an open door. Let us hope that some fortunate find of Greek house-ruins or Etruscan graves may give us now light in a case that seems hopeless.

At all events the fame of Agutharchos will live, not by the work of his after years, however much sought for his decorations may have been, but by what he created in the freshness of his youth, a scene that lasted one single day, but revolutionised art for ever, and probably even altered in time our vision itself.

J. Six

AMPLEMIAN.

[&]quot; Anilos et Alesbard 17, Ibra-th. . Melding, 147, with the admin Plat Attribut. Dr.

A NEW PORTRAIT OF PLATO

PLATES VIL, VIII.

Fucial the Renaissance enwards efforts have been made to discover the portrait of the thinker whom even his contemporary Isocrates called the prince of philosophers. At that period it was believed that it had been discovered in a venerable long-bearded male type, a view which Falving Ursians thought to be supported by a good inscription. According to this there was no longer anything to prevent the ascription of the name Plate to a whole series of Olympian heads now acknowledged as being of the type of Dionysus or of Hermos. And when the broaze bust of the Indian Dionysus was found at Herculaneous in the beginning of the eighteenth century, it was greeted with enthusiasm as the most expressive portrait of the great intellectual hero, and passed as such in popular works right down to the end of the nineteenth century. Even in the beginning of this century an Italian archaeologist tried to save the name of Plate, and proposed to explain the bust as a combination of Plate and Dionysus.

But at the beginning of the nineteenth century science was already on the track of the representations of Plato. Visconti brought to light a little bust with inscription at Florence, representing an elderly bearded man with high bold pate and a ribbon in his hair, but the inscription proved to be spurious. A more valuable discovery was made by E. Brann in 1839 in a sculptor's studio at Rome of a plaster cast of an antique statuette representing a scatod man, which an one side of the scat bore a reliable ancient inscription. AATΩN. Though later it became clear that the head was modern, yet this little figure gave a statuesque type of a portrait of Plato, the original of which has not yet been discovered.

In 1884 the iconography of Plate secured a solid foundation in an inscribed Herm from the collection of Alessandro Castellani, which was acquired by Count Tyskiewicz and presented to the Altes Museum in Berlin.* The

[&]quot; Indistruit, 261.

A survey in Berooully, reviething he Ikono-

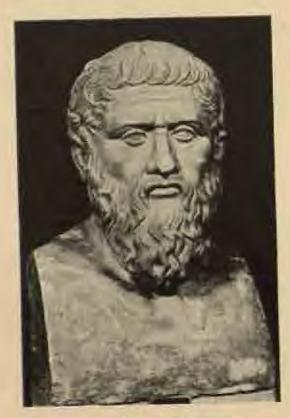
^{*} Binna-Breichmann, 382; Guide Rarach, 867, with liberature; cyc Barmoulli, op. sic. 25, n. l. Cyc the replins, Eine. Miss. say, 1910, 166, top. 21, 32

A Bermulli, op. sit all, t. al.

³ Latest reproduction in Lippold, Greekside Portratsfature, 05, L. T. See also Borcoulli, ep. etc. 21 and 25.

^{*} Helbig, Arch. Jahre, J. 1887, p. 71, Pl. VI. Armit Bruckmann, Portrain, Pl. V. Bermed, B. op. etc. 20, Pl. 19.

genuineness of its inscription was indisputable, and with the help of this bend, which was in itself insignificant and in bad preservation, Holbig successed in pointing out six replicas to which Bernouilli added four others. An eleventh head which has suffered much I noticed in the Museum at Syracuse (Museum number, 714, Pl. VII.). A head in the Museum at Sparta is certainly a portrait of the philosopher; not, as the authors of the catalogue think, a Platonist ² As the thirteenth replica must be added the head in the Ny Carleberg Glyptothek, acquired in 1910 from Countess Cellace of Centocelle near Rome.



FOR L.—THE VATIONS BOST OF PLATE

All the replica- are Roman copies of the first second, and early third centuries a.D., and their variations from one another are not so great as to exclude a common original. The earliest, best executed and also probably the most trustworthy of the replicas is the Heron of the Vatican, with the

² Test and Water, Congregae of the Sports. Massem, 128, fig. 24.

^{*} Hoklar, Grack and Rooms Parpents,

PLAXIII. Described by Lappoid, op. or. 56, e. t. Ny-Carisberg Olyptotheli, Appendix in Plates, Pt. VII. 4133.

modern inscription Zeno (Fig. 1)." The head is quite individualised, with the broad farrowed forehead, the long heavy beard and the calm, rather prevish expression, which seems to justify his enumes when they maintained that the philosopher was ovonewise whose amounts, 10. But the characteristic element in the features is combined with a typical element, which caused Helbig from the first to compare the heads of Greek grave-reliefs, a point enforced and carried further by later writers." A series of heads of venerable ald man from Attic grave-reliefs of the middle of the fourth century can really be compared to this type of Plato.11 Thus the original to which all the copies go back, is dated to Plato's lifetime or the year of his death. It shows the same fully-mastered characterization, which we are familiar with in the grave-reliefs of exactly that period. Only twenty years later do the old men of grave-stelae begin to show more individual countenances, with the forms and furrows that wisdom, pain, or morely weariness loave when life is drawing to a close. The best that can be said of this Plate is that he reminds us of the caim and handsome old men on grave stelac.12 But it is neither Plato the thinker, nor Plato the writer; mather the seer inspired by Apollo, nor the teacher who drew animated youth to his Academy : neither Plate with the strong passion of the dialogue Gorgias, the work of his early manhood, nor the Plate who in his last work defended wine and feasting and recommended his successor Xenocrates not to forget to sacrifice to the Charities. It is well known that Heydemann wrote the following condemnation of the best replies, the Vatican Herm, before its maning had been made certain by the signed replica at Borlin : A physiognomy not very intelligent, suggestive of Philistinism, which seems to be against its attribution to a philosopher. The latest and most powerful expression of dissatisfaction with this likeness of Plato has been uttered by Wilamowitz when he asserts: 'Es kann gar nicht anders sein als dass sieh mehr Platonbildnisse erhalten haben: die Archäologen uttlssen nur Umschau halten "16

During my tour round a number of English country-houses in August and September, 1919, the object of which was to study and photograph ancient portrait sulpture in private hands I found in the suncking-room at Holkham Hall a Herm bust which immediately struck me by its individuality.

Collignon, Statute Jewienica, 152.

²⁵ Conse, ep. ed. Pl. CCLXV-1298 a, CXXV, 634, LIX 239 (Milliades, cf. 1034, p. 54). Collignon, ep. cd. 143.

ii Wilamarwitz Mostlemborsh, Photon, t. 763,

Barnoulli, ep. cit. Pi. V. Arialt-Brankmann, 778, 7. Helder, ep. cit. Pt. XXII. With respect to the other replicas in Beraculli (p. 27), No. 2 is sepreduced; Stuart Jones, Masso Copena on, Ph.LVI and LVIII.; No. 6 in Arialt-Brackmann, 778; No. 9 in Arialt-Analung, Economy, St. 102, and in Experimental, Record process, it. p. 432.

¹⁴ Athenseus, xi, 500 a. p. 607 a.

Winter, in Austria ph. 66, compares

[&]quot;Winter, in Museum 115, 06, compares with the head of the old man on the tembersons of Procles and Proclede. Comes, freeh. Strategick, 12, 13XLL := Armit Amiliang, Einzelenfrenhere, 681-2). It is reproduced by Hether, op of air, and by

Our can been an idea of the hearty of the original by the help of a head from a grave redict at Trieste, Arest-Ameling, 385; to hearts on genne, e.g. Furthermher, the halfane Steam for Berines Astignation, Pt. XXXVI, 5630. Even in Theophrasius time (e.g. 320 s.c.), if is the highest flattery to tell a man that his portrait is a likewise (Chief H. 12), e.g. that he re as himbonne as his portrait.

and in the head of which I very soon recognised a new portrait of Plate be I reproduce the Herm after photographs taken separately by Mr. R. B. Fleming and Lord Coke, and take this opportunity of thanking the last-named and Mr. C. W. James for the interest they showed in my work. I also owe great thanks to the Earl and Countess of Leicester for the special hospitality of my reception during my studies at Holkham Hall.

In the Herm (Plate VIII, and Fig. 2) only the head and neck are



Par 2 Best or Print or Holoniu Hall

animple; they are joined, with the cut edge showing, to a modern Herm, on the left side of which is incised in Greek and Latin letters the name Lysias. The height of the head from the crown to the tip of the head is 83 cm. The tip of the nose and part of the left ear are restored in marble. The surface is much destroyed weathered, and worn, particularly the mass of hair on the left side and at the back is worn quite smooth. The marble has turned very yellow.

of A. Michaeles Assert Markler of thread British, 317, n. 48 Beamwill, op. 40, 16, 2, who reports with incredicity the halfments

of Course and Machaella than the bend is really a portrait of Lysins. The Heem was bought by Prottingham in 1752 for 40 crowns.

The deep and disintegrating boring of the beard proclaims that the head is a Roman copy of the second century a.b. But no commission of Greek iconography will doubt that the original was a portrait of the

fourth century n.C.

The resemblance to the Plate portrait already known is unmertakable. It appears in the shape and fall of the bair over the forehead in the broad forehead with the identical treatment of horizontal and vertical wrinkles in the lines of the moustache and the breadth and length of the beard. But small variations give a fresh espect to the previously known features: the forehead wrinkles seem to vibrate menacingly, one forehead lock is arched, the lines of the moustache crackle like lightning, and in the cheeks life and suffering have ploughed deep forrows. Enough of the nose is preserved to show its shape, curved and narrow-ridged with a deep depression at the root it is a well-shaped aristocratic nose and quite individual, nor broad-ridged quiet; and stylised as in the 'Zeno' of the Vatican, where remains of the ancient nose point conclusions as to its shape. But a trait common to both heads is a prominent fold of the skip over the root of the nose.

It is just this individual stamp which, in combination with the marked rendering of temperament in the expression, gives its value to the Holkian head. It is not the calm likeness, suggestive of grave-stelae, which we have in the Plate type previously known, but the portrait of a living man passionate, noble, full of spiritual emotion.¹³ The difference is too great to be considered the variation of a copy, nor does the head bear the impress of being a Hellenistic-baroone transmutation corresponding to the Socrates in

Villa Albani.

In this portrait Plato is old. It is always dangerous to propose a precise date for a Greek portrait, but if we had to name a time in which age and expression would be suitable it would have to be immediately after that murder of Dion in Syracuse 353 a.c. which gave Plato such distress and was contemporaneous with the perfidious attacks on his philosophy which in the famous seventh letter he answers in righteous indignation.

By reason of the very large number of replicas it has been proposed, as we hear, to connect the Vatican type of Plato with the tradition of a statue in the Academy, set up by the Persian Mithrulates and executed by Silanion, the best known of the portrait soutptors of the fourth century. An inscription found at Miletus has recently confirmed Pliny's dating of Silanion's activity in the last half of the fourth contary act. Plato's portrait must therefore have been executed in the last years of his life or after his death.

Against this assumption, which however is shared by Bernoulli, Lappold is right in emphasizing the point that the portrait in question with its sobriety of treatment agrees but poorly with the sole traditional witness to Silanion's art, the characterisation of his portrait of the mad painter

[&]quot;There seems to one to be a little attempt at residening presion in the Plate head of the Capitoline Moseum 1 Steatt Jones. Mo-

Capatalino, Pl. LVI, n. 58 (p. 242).

O Last and comprehensively in Wilamowitz,
Petron, R. 4.

Apollodorus mec hominem ex oure fecit sed imeandiam. ¹⁸ It was thus a pathotic or, to use a more adequate expression, a pathognomic portrait. There must have been a similar pathos in Silamion's other famous work. Jocasta, the paleness of whose face was rendered by a mixture of silver with the bronze. On the other hand, the Holkham portrait would well suit Silamion's pathetic style. It has a terribuita, especially when viewed in profile, which reminds one of the well-known. Hippocrates portrait of the Villa Albani, in which Leescheke proposed to see Silamion's portrait of Apollodorus.

Besides Silamon's statue in the Academy, paul for by a barbarian, just as later the Pergamene king Attalus II and the Persian Amarathes jointly erroted a statue of the philosopher Carneades in Athens, according to Olympiodorus, statues of Plate, warrayoù draweigerus, and an epigram tells that Aristotle dedicated to Plate an altar in Athens, perhaps in front of one of those statues.

It is probable therefore that the grave of the philosopher, which was near the Academy, in addition to the swan, which is described as its decoration, was provided with a stance of him. I should be inclined to someet the best known portrait of Plato with the grave-statue, both by reason of its character and on account of the numerous replicas. One may be surprised that there are so many reproductions of this uninteresting head and at present none of the Holkham type. Here we must remembes that in the case of Socrates there is a similar state of things. While the most valuable portrait, artistically speaking that in the Villa Albam, is practically only preserved in this one example the least interesting Paris type is far more common than the Vatican or Naples type, which is Socratic in quite another manner.¹⁸

The copying of the portraits of Greek philosophers to be set up on the philosof libraries seems to have been a regular industry, and even less well-to-do people like the philosopher Nigrinus described by Lucian were surrounded by numerous busts of philosophers. It was evidently not artistic but other reasons which determined what originals should be preferred for copying. To understand this it is sufficient to read the beginning of Cicero's De Finibus, with its description of the intellectual Roman pilgrim reverentially visiting the grave of Pericles and the garden of Plato. It was this sentimentality which was exploited by the wily Athenian stoneoussons,

is Lappold, Greek Partnerstatutes, 56, Pliny, 34, 81.

Derbiehte der griecht Kanstler, 1355 Brunn, Genhichte der griecht Kanstler, 5. 350 ff.

^{**} Arndi Brackeniano, 975-6. Bernoulli, opi cil. i. 171, lig. 38. Hokler, Greek and Romen Protestia, bij h.

Nachmann and Historical Minich In whiteher, 58, n. 60. Dittemberger, Syllings's

to op. S. Relatedt in June. Jour. Arch to

^{1888.} p. 4. Wilamowitz, Assent he wast

Statute Jumenics, 242 How antivered a proutice it was to decorate a arrow with a postrait status appears, apart from animal fluids, from Pausanias, III, 24, 7 and 28, 7.

Kelenie, Ridinian des Salvados, Abin. der Boel, Aliadi. 1968.

o Layeren, Nagrano, 2.

and they had their good reasons for preferring to copy the simple portrait at Plate's grave rather than undertake the passionate work of Silanien. Both types were equally good for the opulent Roman tourists, who only wanted to have at home visible reminders of their grand tour to Athens, and to whose passion we owe our collections of portraits of the great men of Greek intellectual life.

FREDERIK FORLSEN

PISIDIAN WOLF-PRIESTS, PHRYGIAN GOAT-PRIESTS, AND THE OLD-IONIAN TRIBES

Os a Pisidian tombstone the name Gagdabes Eslagdabes occurs. In - publishing this in the Royas des Universités du Midi 1895, p. 360, I quoted Radet's tempting conjecture, that it is a case of filiation expressed by prefix. Religion however furnishes a more probable explanation. A priest numed Gagdabos adds his title Edagdabos. Gagdabos is a reduplicated form such as is extremely common in Anatolian nomenclature : e.g. on a sarcophagus found in the north Issurian hills not very far from Lystra the two names Gaa and Goggos both occur and are evidently names in the same family, one a reduplication of the other; Kretschmer has noted (like all Anatolian students) the habit of using reduplicated names

Gagdabos therefore, implies a simpler mane Gdabos or Gdawos; this word was greeized as Saos, and latinized as Davus, a common name of slaves from Anatolia. Anor is explained by Hesychius as meaning wolf; and the Phrygo-Pisidian god Manes was Daos, the Wolf (see J.R.S. 1918 p. 145). 1: was common to call slaves by the name of some god or king of their mative land. Now in Anatolian and old Greek religion the priest bears the name and garb and character of his god. In a fortile sea-plain at Pergamos the order of priests called Boukolai implies a religious cult for breeding and rending the ox and the cow, agricultural or pastoral differing from the religion of the dry central plateau, where the goat and sheep can be more profitably bred). The head of this order was the Archiboukolos, and the original priest was Dionysos himself. On this analogy and on Galloi-Archigallos, we look for a chief of the Wolf priests.

Radot loc, cit quotes the group Logbasis, Idaloghasis, where Idaloghasis is described as an eponymous ancestor of the tribe Logbase is of Termesan (see Lanck II p. 28), with the obvious meaning 'the chief of the tribe'

taken is a religious group?

The hypothesis is inevitable that there was in Pisidia an order of priests called Walves. Then it is evident that, just as there was an Archiboukoles and an Archigallos so there must have been a chief Wolf Eda-gdahos, implying that archi- in Greek corresponded to the Anatolian Ida or Ido or Ede.

Mt Ida was the chief or supreme mountain (cp. Sultan Dagh in Paruraios). Idaguges was the chief Guges, probably some hieratic title in Lydis Idomeneus, like Ida, has the first syllable long; but this is evidently due to poetic convenience (like adaptive in hexameters)—the element mone or mone is common in names in the Anatolian priestly families (see J.H.S. 1918, p. 169). The Lycian city Idebesses may be another example.

The term Archigallos was used by the Romans in the borrowed Phrygian cult of Cybele (from Pessinous) and Strabo mentions (like other authorities) that the Phrygian priests were called Gallot; but no epigraphical proof has been found that this name was used in northern Phrygia. In southern Phrygia towards Pisiciia the name Archigallos is found on both sides of Sultan-Dagh, near Antioch and among the Orondois. The name Gallos is probably old Anarolian, and it may possibly be the same as the personal name Glous found in the list of priests at Korykos. The Lycaonian and Isaurian name far or Lour (in the reduplicated form Lilons) may be connected. That Gallos and Gdabos should become personal names is in accordance with custom.

For the moment I can only state the opinion based on Strabe, that the Ionian tribe in old Attics, Aigikoreis, are goat priests who appear on ceremonial occasions as goat men and are under the presidency of the chief goat-priest, via Atti him elf, the god who teaches to mankind the religion of the godness. The second half of the name Koreis, Anatolian Kaweis, exemplifies perhaps one of the many ways in which the Greeks attempted to represent the Anatolian sound W, for which they had no symbol, and which they were evidently unable to pronounce correctly. There came into play of course, the general popular tendency to give some sort of suggestion of a meaning to a word belonging to an inknown language; but the use of known in the sense of priestess at Sardis, some (also kone; Hos.) as priest of the Kaheiror, and the employment of the word by Hipponax all show that a word which had some form approximating to Kawa or Kowo was widely spread on the west coast and islands of Anatolia.

The same hieratic term can be traced in a more purely Asiatic form in Phrygia. The priests of Kybele at Pessinons are called in inscriptions Attabokaoi. This word falls into two elements which generally have been wrongly specified. The first is not Atta (as has been stated) but Attabo.

an exymplogy accordingly.

There are two objections to the inferpretation of Mount Ida as the 'chief' in 'hing mountain (1) The arts syllable is long invariably, but Greek perte and do not rurnish sufficient proof of the original Anatoliest home and sound. (2) The statement is quoted from E. M. that his means a waterled mountain we saling out the authority is insufficient. It is more likely ter be a more sthelastic inference from such phrases as a validate take (as Fraser suggests).

is J.E.S. 1917, p. 204 mate, I erromonally quoted the name as full-bases, and suggested

² Perhaps Ler may be a broken-down reduplication. The G at the beginning would be a fixed attempt to represent the Acatolian W. The town of Lyrke in purhaps connected the Lie Loue are Miss Reavesy's note in J. H. S., 1904, p. 285.

See Buckler and Robinson in A.F.A. avii. 1913, p. 362 ff. Fournier, Rev. of E. A. 1914, p. 438, suggests Obi Persian kavyah.

Bukasi was compared with Bounder. On these prioris sec I.G. E. H. iii. 220, 223.

and the second is Kawot. Attaba is one way of rendering in Greek at a particular locality and time the Phrygian word mentioned elsewhere as Attago or Attago which meant goat. Ultimately the word was Attawo, and it is obviously closely related to the name of the god Attes; in fact Attes is the goat-god, i.e. the god of a people whose occupation was largely connected with the domestication of the goat.

Here again we have the goat-priests. Many lines of inquiry suggest themselves, from which I refrain here. It should, however, be pointed out that the central regions of Anatolia are unitally pastoral, and that agriculture plays little part except in the occasional cultivation of gardens surrounded by walls; these were in fact sometimes called by the Persian name Paradeisos.

walled enclosure, but generally by the Amatolian name Kapo.

The suggestion that B and R and L and W interchange in this way will strike horror into the mind of the philologist; but it must be remembered that this is not a case of the development of one single language. It is a case of the adoption in alien countries and languages of words from a strange tongue containing a number of sounds which were unknown to, and unprononneeable by, and unrepresented in the alphabet of any of the Greek tribes and races. At different times and in different localities the same Anatolian sound was reproduced in different ways in Greek letters, in fact it is even true to assert that in the same place and much about the same time an Anatolian name was represented by different Greek letters. We are dealing here with a matter of history rather than of philology. Just he provid and proshyter are the same Greek word which has come into English through different routes and assumed totally different forms, and just as the Germans call that Polish river Weichsel which we call Vistula; and the Germans and we call Dantzig (or slightly different spellings) the Polish town Gdansk, and just as the Creatian town of Zagreb is called in German Agram, so it is with the rendering of Anatolian names in Greek. The total difference in the character of enunciation in Anatolia and in Greece is a fact which is as true at the present day as it was in accient times. The quotation made in H.G.A.M., footness to p. 281, can be applied universally with reference to the difference between Greek and Anatolian pronunciation. Sounds which existed an the eastern side of the Aegenn were unknown on the western side. Not meraly is this the case with the spirants W and Y; it is espailly the case with the masalised vowels which are such a murked feature of Lycian and Lydian alphabets and which give rise to so many variations in the grecisation of Anatolian proper names; and, also, vowels which were long in Greek were short-nesl in Anatolian pronunciation and vice-verse. The halting verses inscribed on tombs often show this non-Greek quantity.

It is natural that in a wild mountain region like Pisidia the god and his pricate should be conceived by the people in a savage aspect; " whereas in

rapresented in his ideal agrices so the inked savage. He is the most in his brutality. though retaining the human form.

the the monument deficited to the decentral Augustus at Pinjdian Autmon-pass J.R.S. 1016, p. 105; the bettered expire Homon-tension or Pradian Wolfman was

the peaceful level plains of Phrygia devoted largely to pastoral pursuits and especially to the breeding of the goat; the god and his priests should be pictured as the teachers and regulators of goat culture; while at Pergamos in a low rich valley where cows were more important than goats, the god

and his priests are described as cow-keepers (Bouxoket)

Now, as to the old Ionian tribes, or occupations, they may be taken as coming from the East Augean shores (where the names are found sporadically -We assume, though it may appear dogmatio to do so, that everyone who reads the evidence of Plato (Critics 24 and Tomasus 110) and of Strabo: p. 383, will come to the same conclusion, viz., that there was an old system of classifying the people of the Aegean lands, i.e. the Old-Ionians, the sons of Yavan, Into four classes -warriors priests, artisans and agriculturists and this four-fold division was an ancient Asintic custom. Unfortunately these excellent authorities do not give the ancient names for the four classes, and they differ in the order of enumeration. The order which they employ is probably dictated by the general purpose in their minds at the time of writing, and is not the ancient traditional arrangement. Plato enumerates ispers, δημιουργοί, γεωργοί, μαχιμοί: Stribo mention: γεωργοί, δημιουργοί (εροποιοί.) dulaxes, but his list may be in inverse order. Either priests or warriors must have been first in dignity; a warrior state with a conquering casto would put warriors first.

Enripides for 1579 f. Herodotus, v. 60, Plutaren Sol. 23, Politik, viii. 109, Stophanus summerate the names. They differ in respect of the order, and to some degree in respect even of accentuation and form. Euripides has Γελέων (Τελέων is false), "Οπλητες, 'Αργαδής, and Αλγικορής. Δε oponymous heroes of the tribes Harodotus gives Γελέων, Αίγικορως, 'Αργάδης, "Οπλης (sons of Ion). Stephanus has Αίγικορείς (calling it an error for Αίγικορείς 'Αργαδόις, Γελέωντες, 'Οπλίται. Plutarch amentions 'Οπλίται, 'Εργάδεις (artisans), Γεδέωντες (agriculturists), Αίγικορείς (berds). He is misled by the name Aigikoreis, which he understands as bords: "and recent historians of Greece, especially the Germans, prefer the authority of Plutarch to that of Steabo, while they rarely regard Plato as being even an anthority. As above stated we regard confidently Aigikoreis on the priestly class, practising certain rites in a special dress of which the goat-skin was the prominent feature.

The difficulty as to the reading Golcon or Golcon is embarrassing but the cult of Zons Geleon points to this as the true form. We reject the supposition that original I) had changed to L, for the religious fact is the safest guide. At one time I thought of Golcontes as Gadavantes (connected

¹ See Panly Winnight, a.r. Amilioveic.

[&]quot;It is assumed that Plato was not inventing nordities, but was guided by whe old literal the Critics states Cretain facts, not mure fancies, though under a vell of feacy.

Similso to pide the word feath this has a jumps—, material to one who knew the Ann-tolian facts and religious Associations.

Plate, The 110, the chapterd hunters, agriculturists together. According to the social order the same set of man would be shopherds in a memorial pasteral tribe and agriculturists in an agricultural saciety. Plate's purpose and natural character might lead him to put warriers had, and so me the rather depreciatory term agriculture.

with Gda or Gdau, earth in Phrygian or Anatolian), but I could not work this out in a complete theory.

It has been commonly assumed that the Hopletes must be identified with the classical Greek Hophita; 11 but this inference is not necessary Hoples, the son of Ion, and the class which takes its name from him belong to a far earlier stage in language and custom; and we must not assume that 5-Xor meant a warlike weapon in primitive Aegean usage. It is quite possible that this word meant implement, and that Hopletes were the artisans; such a conjecture is as justifiable as the very uncertain ancient belief. The personal name Hoplen is common in Pisidia, and accordingly there can be little doubt that on how is Old-Anatolian and has to be judged on this footing. It seems of course more probable that in Pisidia Hoplon mount warrior than artisan. The name is used in noble families, who would be unlikely to employ a name that meant artisan; but it is a reasonable supposition that Hoplon there meant a man who made warlike weapons (an aristocratic occupation), while among the sons of Yavan, who from the beginning stood on a higher plane of civilisation, Hopletes were artisans in the generic schee

The genealogical theory naturally came into play that these four classes took their names from the four sons of Ion or Yavan. With regard to the number all authorities are agreed, except Pollux, who probably by error in transmission of the text substitutes the single Kadeis for the two names Argadeis and Gedeontes. Perhaps he found this latter form; and not Colornes in his authority; but he cannot be quoted in support of either form. Strabo and Pollux are agreed that there were more stages than one, and even Plutacch dumly shadows forth that there were at an earlier time tribes, and that these tribes chose different occupations (Sioi). The truth line behind all this that a certain development occurred. Pollux mentions four stages, stating, in the first two, mythological names of the tribes. As a third stage, Pollus gives the four Athenian tribes in the time of Erichthonios according to the names of the deities with whom each was connected, Dias Arbenaia Poseidonias and Hophaistias. In all probability these lists are connected; the third status the tribes as four religious groups protected by four special deities, the last uses tribal names. Euripides connects the Aigikoreis with Athena and her Aigis. The cult of Zens Geleon. at Athens implies that the tribe Geleontes was associated with Zens. There is no ancient authority for connecting the other two tribes with two special deities, but it may be assumed that the craftamen or artisans had Hophaiston as their protecting divinity. There remains Possedon as the god of the possint class

entatinited Ergodess for Argadess, was in fluoresst by the belief that this class was the Artmose (connected with Lyce); but in Ana tells the initial digamma would not have been limit.

if Platarch, Stepleanus, and Pollow (who gos the form Hophital) considered them the Warriors, arring in regard to the meaning of an abt Innian and Anatolian same through identifying it with a later Greek word. Similarly Platarah (or his anthornty), who

That their protecting deity is Poseidon may seem strange; but we know little about the original character of the Old Ioman Poseidon. He was perhaps the guardian and guiding divinity, who subdues the earth for the use of men and directs them in their work (like Herakles). Hence at Athens Poseidon-Erenhthous was a natural and official identification.

In J.H.S., 1918, p. 183, three of the four tribes at Iconium are described:

(1) Augusta the tribe of Zeus, the supreme god Augustus, identified with Zeus, (2) the tribe of Athena (Polias I). (3) the tribe of Herakles, the toiling god, who makes the earth serviceable to men. (4) is still unknown.

Certainty is not yet attainable; but a definite conjecture may stimulate

criticism. We follow the order of Herodotus 13 :-

(I) Geleontes (Dias) are the class of warriors, including the king of a conquering tribe: Gelan in Carian meant king: Gelanor was an old king of Argos: Zeus Geleon is the tribal god, i.e. Zeus Basilens.

(2) Aigikorois (Athennis) are the priests, wearing Athena's airie (as

Euripides mentional

(3) Argadeis (Poseidonias) are the agriculturists: the name is connected with appear field, and survives in the Turco-Austolian village, Manarga (the field of Man or Men), near Antioch, that 'Phrygian city on the Pisadian frontier.' Derivative names, like Argiles, Argiesa, etc. are wide spread in the Aegean and Anatolian lands.

(4) Hopletes (Rephaistias) we the makers of onla of all kinds.

Fraser suggests that in Argikore's the second element may be connected with Korubantes. This reminds me that Lukinbas? Sozon on come of Themissonion a Phrygian town in the Pradian frontier hill-country, may be a shorter expression for the full ineratic title Manes Daes Hebodromos Zeus (J.R.S. 1918, p. 145). In that case Lukios, or Lukinbas, would correspond to Daos Gdabos, the Wolf-god, while Sozon-Sacazos is the Son-god, and Zeus the Greek title is abled.

WILLIAM MITCHELL RAMSAY.

[The Greek system of accentuation does not suit Anatolian words (J.R.S. 1917, p. 266). In writing these words with Greek letters it might be better to use no accents.—W. M. R. [

figure? in the marty religion of Anatolia, so Luna the Physician and Other Statios in Religions History.

The regular verter was importing to Tompiles in Pauly Walliam, quality as Inauthority Mener, de généal Ast, a) Gelmate Argades, Algikares, Hoplotes

THE APPRODITE FROM CYRENE

[PLATES IX., X.)

The sculptures recently discovered by the Italian exeavators at Cyrene were described and discoused by Signor Bagnani at a general meeting of the Hellenic Society on 9th November, 1920. It is hoped that Signor Bagnani's paper, together with full illustrations of all the sculptures referred to will appear in the next number of this Journal. Meanwhile our readers will probably be glad to have a reproduction of the Aphrodite, which is the meet of them, but is not yet so well-known or so accessible as it should be on its merits.

Most of the statues found at Cyrene decorated a kind of hall, which served as a gallery of sculpture. They are by no means homogeneous though most of them clearly belong to the Hellenistic age. There is, therefore, little external evidence to guide us to the period or school to which any of them belongs, and we are left mainly to internal evidence derived from a study of the statue itself.

The type is a familiar one, that of Aphrodite arising from the said (Anadyomene), and the action of her arms must be restored as squeezing the moisture from her hair a point projecting on the front of the left arm shows where a tress was probably attached. The classical example of this type, calebrated by numerous epigrams, was the famous picture by Apelles, set up in the Aschepieum at Cos, and subsequently transferred to Rome by Noro. No example of the type in sullpture is known to me earlier than this ; but in becomes very common in later Greek art, espanially in statuestes both of marble and of brenze. It offers the same opportunities for the display of a beautiful figure that are supplied by another favourite type, the young athlete placing a filler round his head (Diadunence) or the maiden bushing up her hair. The chief difference is that in the Anadyomene type the arms are not raised so high as the hands do not touch the head but hold out the tresses of hair about level with the shoulders. An example of the type is here reproduced from a little statuette bought in Alexandria (Fig. 1). The two sides of the figure are reversed, but the action is similar; and it is even

h 20

possible to see the position of the lock of hair which has left its trace in the point on the left arm of the Aphrodice from Cyrene.

The Anadyomene type offers the greatest possible contrast in position and motive to the Unidian and its many derivatives. The self-conscious



Fig. 1.—Bioven Statustry From Augustonia.

shrinking from observation, shown not only in the position of the arms but in the whole poise of the body, is here entirely absent. The Cyrene Aphrodite stands straight up—the outline of the figure on her left side even staggeratedly straight. The motive of the bath gives a human touch to the Cnidia, who drops her garment over a large vase. In the Cyrone figure the support at the side, in the form of a dolphin, is clearly an allusion to the rising of the goddess from the sea. This dolphin is sometimes transferred to a variation of the Chidian type like the Venus dei Medici. The presence of the dolphin, in an unnatural position, may well be transferred from the picture by Apelles, where it would be in place in the sea that appears to have partly covered the goddess. Its presence suffices to indicate a lifellenistic date, and the shawl-like garment with a fringe placed over it seems to be borrowed from the Caidian type; a precisely similar garment appears in the Capitoline Aphrodite, to which Dickins 1 assigns, with good reason an Alexandrian origin the fringed

clock being characteristic of lais.

Any final decision as to the school and pariod of the Cyrene statue must, however, depend on considerations of style. The extraordinary bounty of the figure has been generally recognised, but it also shows a remarkable degree of individuality. The wonderful softness of surface modelling recalls the tradition of the Sons of Praxiteles, as recorded both at Pergamon and in Alexandria. But the forms of the body are strong and massive, unlike those of such a variant as the Aphrodita with Triton. The shoulders and breast are very broad and firm; the lower ribs, just above the waist, on the other hand, are somewhat slight and weak in contrast. This may well be the result, in a model, of the Hollenistic fashion of wearing a very high and tight girdle. But the lower part of the body and legs are abnormally plump. It is this combination of inconsistent parts that gives its peculiar character to the statue as a whole. It is difficult to find any exact parallel. The wellknown Esquiline Venus is indeed similar in the great plumpness of the lower part of the body and legs in contrast to a much slighter waist and chest; but that statue has in its upper part an archaic character far removed from the style of the Cyrene statue. It is greatly to be hoped that the head of this statue may be found in further excavations. But perhaps, after so long an interval (the Aphrodite was discovered in December, 1913), this is

^{*} Helemotic Scal peurs, jr. 25

^{*} Bickins, ogs. cal. Fig. 25.

hardly probable. It would be rash indeed among the puzzles and contra-

dictions already noticed; to conjecture as to its probable type.

From the comparisons already made it seems clear that in the Cyrene statue, we have a masterpiece of early Hellenistic art. And the characteristics of atyle, as well as other indications, seem all to point to the school of Alexandria as its probable origin. Such an attribution has every probability in its favour on geographical grounds. How far it is confirmed by the other statues found in the Italian excavations must remain undecided for the present. Alexandrian art is as yet but little known to us, though the influence of Alexandria on Rome and the rest of the ancient world must have been very great in art as well as in literature. An original masterpiece from this source is therefore a great gain to our knowledge of the Hellenistic world.

ERNEST A. GARDNER.

CORNELIUS NEPOS ON MARATHON.

In the discussion on the battle of Marathon which Mr. How and Mr. Casson have recently carried on in this Journal, both these scholars have assumed that the Athenians fortified their position by artificial means,

This opinion seems to be construed out of a passage in Cornelius Nopos, the text of which, to judge by Mr. Casson's quotations, is read by him as follows:—

Dein postero die sub montis radicibus acie regione instructa nova urte vi summa proclium commiserunt: namque arbores multis locis grant rarae; hoc consilio, ut et montium altitudine tegerentur et arborum tructu equitatus hostium impediretur, ne multitudine elauderentur.

Now the words 'nova arte' certainly suggest an artificial fortification. But they only occur in a late MS, of inferior authority, and they undoubtedly are a false reading, for no proper sense can be made of the first sentence so long as they remain in it. 'Vi summa' is redundant, and 'regione' is left hanging in the air. Hence the most recent editors have rejected this reading and have adopted that of a more authoritative MS, acie regione instructation apertissuma.

The only other words of Nepas which might be taken to indicate a field-work are 'arborum tractu,' which might possibly be construed by the handing of trees.' But, apart from the fact that a participal construction like 'arboribus tractis' would be required by correct Latin usage, this would be a highly elliptic way of conveying the fact that the trees had been folled and hauled into position. Therefore we can hardly avoid taking 'tractu' in the sense of 'tract' or 'expanse.' This meaning of the word is well attested, especially in connexion with landscapes." In the present instance, moreover the meaning of a drawn out line or clamp of trees is eminently suitable to

Mr. How in J.H.S. 1919, p. 55; In the soinal description of Marsthon the best points in Cornelian Nepos are . . . the mean taken to strengthen the position artifactally.

Mr. Casson in J.H.S. 1920, p 44; The same are, by which something approximating to barbed wire supplied the Greek lack of cavalry.

Had . Troops softwooded traditionally employ abstractes. The mon of Marathan

were none the use horses if they did so too,"

a Miltiader, ok 5, 3%.

¹ See the preface of Mr. Winstest's edition.

^{*} So Dietsch and Wimball.

⁶ Cf. Pliny, Nut. Hist. xvii, 35: general vitinta separati de singulia tractione consert, utilisaumum.

Hor Emailes, 1 15, 1, 2; tructus uter plures lepores, uter esta et apros

the context, for it aptly resumes the previous words 'arbores multis locis crant racue'

Thus it is difficult to resist the inference that the Athenian flank defences were a natural growth of living trees, and not a hand-made obstacle. A plantation still exists between the Soros and Mount Kotroni, which fits in well with Nepos' sub montis radicibus. If Nepos' description of the battle is correct, this group of trees may be taken to mark the Athenian flank

M. CARY.

⁵ See the show for Marathon in Carlles Kampuri's Kartes van Affilia.

CLEOSTRATUS: A POSTSCRIPT.

Since writing my paper on Cleostratus, I have received from Professor Boll a copy of his masterly treatise, Antike Beobschlungen farliger Sterne, in which he incidentally deals with the \pipora \sigma\text{nuein} of Cleostratus, which he identifies with the sign Libra. This interpretation is based on an excerpt from Antiochus, dealing with the pernicious degrees of the zodiac. The passage runs as follows:—

Κέντρου Σκορπίου άπο - έως ι', κράσεως 'Αρεως και Κρόνου' και <ή>πρώτη μοίρα κρίσεως Έρμαυ κτλ.

Professor Boll recognises that the words āπο. Κούνον cannot refer to the Scorpion's sting, and supposes that after Σκορπίου the words τὸ μέτωπον τοῦ Σκορπίου have fallen out. He then takes ἡ πρώτη μοῦρα as equivalent to the πρώτα σημεία of Cleostratus, a traditional phrase unlike the terminology of the rest of the passage. a and β Librae have, as he points out, the temperament of Jupiter and Mercury according to Ptolemy, and he therefore identifies the πρώτη μοῦρα οτ πρώτα σημεία of the temperament of Mercury with Libra.

My objections on other grounds to this identification are stated in pp 171, 172 of my paper. It remains now to deal with the excerpt from Antiochus. The text of this excerpt may be restored with great accuracy by a comparison with the parallel passages in other texts. See the Anonymus of 379, Abu Masar, and more especially the Excerpta Parisina, the host of which exhibits a close verbal correspondence with Antiochus. In the Excerpta Parisina the passage runs:—

Κέντρου Σκορπίου Τοξότου μοίρα α΄, κράσεως Αφροδίτης και Αρεως. Μέτωπου Σκορπίου άπο μοίρας θ' έως μοίρας Ι΄, κράσεως Αρεως και Κρόνου, κτλ.

There can be little doubt that the passage in Antiochus must have

Κέντρον Σκορπίου Τοξότου πρώτη μοίρα, κράσεως Έρμου μέτωπου Σκορπίου ἀπὰ ε' έως Γ, κράσεως 'Αρεως καὶ Κρόνου' «τλ.

J. H. S. xxxix 1910; pp 164 84.

Abandlungen der Beniglich begreichen Abademie der Winsenschaften, philos philos, und hist, Klasse, xxx. 1918, Abhi I

^{*} Pp. 70, 71.

^{*} Catalogus culticum astrologorium Grairio

vam, vil. 1908, pp. 111, 112

I Tetrabilion, L. D.

[&]quot; that red, are tirese, a 1, 1994, p. 208.

⁷ Hold. p. 170.

I think pe with

The words Τεξότου . . Σκορπίου must have fallon out and have been imperfectly restored in the wrong place. Thus restored the passage yields excellent sense. The πρώτη μοῖρα becomes the first degree of Sagitlarius, and is perfectly consistent with the terminology of the passage. The Scorpion's sting according to Ptolemy, consists of the two stars which we call λ and σ Scorpii. The longitudes of these two stars in 300 A.D. were 240°0 and 240°4 respectively, and they therefore stood where the Excerpta Parisina place them, in the first degree of Sagittarius. Moreover, they are given the temperament of Mercury and Mass in Ptolemy's Tetrabibles, which agrees well enough with the temperament of Mercury mentioned in this passage. There is no reason whatever to connect the sample phrase πρώτη μοῖρα in Antiochus with the πρώτα σημεία of Cleostratus.

Professor Boll has shown is that Antiochus is older than Porphyry, who names him in the Isagogs to the Tetrabibles. If the longitudes in this excerpt have not been altered by a later hand, he cannot have been much older. The houseopes published by Grenfell and Hunt it show that in the latter part of the third century the astrologers had not merely corrected Ptolemy's false equinox, but were inclined to adopt for the Sun at least longitudes in excess of the truth. There would seem therefore to be no difficulty in supposing that the longitude in the passage before as represent the genume text of Antiochus.

I take this apportunity of correcting two elecical errors in my paper on Cloostratus. On p. 177, l. 15, 'years' should be 'months,' and on p. 178, l. 30, 'fourth' should be 'third,'

On pp. 171-3 of that paper I have explained wpora equals as the first stars of Scorpio to set cosmically, but have unitted to name these stars. At Tenedos in the time of Cleostratus q and \(\gamma\) Scorpii would answer this definition and are presumably his \(\pi\) poor a cypeia.

J. K. FOTHERINGHAM.

binness I gave a take and complicated meanlage to the word insertrate. Its real meaning is simply 'retrograde.'

B-1/10

^{**} Nohamy, 1965, pp. 54, 55.

ii Ongrhyacias Papyer, xii. 1616, pp. 221, 282. On p. 284 of that work by an ignorant

NOTICES OF BOOKS

A Grammar of the Greek New Testament in the Light of Historical Research, By A. T. Romanson, M.A., D.D., LL.D., Litt.D., Professor of Interpretation of the New Testament in the Southern Baptist Theological Saminary, Louisville, Ky. Third ("definitive") edition. Pp. laxvi = 1454. Hodder and Stoughton. New York: George H. Doom Company, 1919, 42s, and

The advance of comparative philology and large attentions to our stock of illustrative material have revolutionized ideas about the language of the New Tournment and thrown many oblic works into the diade. Grammars of N.T. Greek have been plantiful of late, but misfortune or chance has prevented come of the ablest workers from bringing their task to completion. Prioritist Blass, natest, produced a complete and handy Grammar in 1896, which, revised by Dedminner, reached its fearth edition in 1913. But Blass, protound as was his knowledge of Attic Greek, was not an familiar ground in the N.T., and did not perbase take sufficient account of the latest lights afforded by the papert. The sentence in which Schmidial's revision of Winar broke off, over twenty years ago, still remains unfinished. Prof. J. H. Moulton, whose brilliant Professorian appeared in 1966 (3rd ed., 1968), to the grief of all who know has and with irreparable less to scholarship, met his out at sea as a victim of the war. It has thus been reserved for an American professor to produce the follows and most comprohensive treatise in the light of all the available evidence.

Blass's work was comprised within 350 pages and was written for those who regarded the peyr Bestian as a peya saxos. The stout American quarte before us is more than four times that bulk and, we must said, suffers from its massive proportions. It would be ungracines not to acknowledge Dr. Robertson's extraordinary diligence in a work which has occupied eleven years, his wealth of learning, his interesting historical Introduction, his recognition that Greek is a living organism and that the N.T. language must be studied as part of the larger whole, his sinutches of developments ranging from Sanskrit down to unshire Greek, his same views with regard to many so-called "irrogularities," with his imustence on the allowance to be made for the personal equation in the writer's style (p. 386) and on the arror of judging Greek idlama by English or German practice (790). On the other hand, the book has some serious defects. It might with advantage have been drastically curtailed. Seedless reputations occur throughout, sometimes on the same page. A mere table of contents compying over forty pages comes to serve the reader's purpose. Sub-division is carried to excess and usages are illustrated which are absent from the N.T. In places one exnor see the wood for the trees, and the rootthe ming, e.g., of the terms is lost in the mam of examples. The citation of authorities is expression; the work sometimes dependentes into more complation of opinions glestical from all sources, with consequent loss of clarity and connexion. The most elementary points are slaborated, while passages of roal difficulty receive made made treatment. We miss the ter-same of Riess (whose weighty anthority should not be lightly disregarded). the principles and fuscination of J. H. Moulton. We can but note a few detalls. How does Thueydkles muri the charge of 'vainglory' (p. 121) Few would now agree that 2 Peter of the work of the Apostle (125). A list of compounds of res occupying nearly a page (5284, learner no metal purpose and a typical of others. The discretized residering of up a sign (Mt. xxvi. 50) as a question is retained without hint of any alternative (755). The statement that 'in general when when is anarchious in Paul it refers to the Mosan Law (790) needs qualification; see Sanday-Roadlan on Rein. 6, 12. What is the meaning and relevance of the aentonice, 'This (Imporsonal Construction) is the usual bliom in the Coptic in lieu of the absence of the passive (820)! The author blanders in treating Mk. 76, 5 as a conditional sentence (1913, etc.). It was surely needless to state that yants exponential does not mean "without preaching" but 'without a preaction (1996), or that re with infinitive is unconnected with Engineb 'to' (1965).

The printing in general is remarkably accurate, considering the inimumes size of the surk. We have noted some errors in names, p. 12 (Rainer), 26 (Rainer), 50 (De Cauger).

214 (Lippets), 1011 (Deissentti) and a few others

While Dr. Robertson's work brings together for the first time much medial integral, the ideal Grammar has yet to be written. Moniton's Prosegue on insample's as it is, still retains its pre-uninous position.

The Oxyrhynchus Papyri. Part Kill Edited with translations and today by Beanann P. Gressent and Arrives S. Hewr. Pp. 235. 6 Plates. London: Egypt Exploration Fund, 1919. 25c.

The Egypt Exploration Society (to give it its now mann) continues with actomishing regularity to produce its annual Graces Roman volume from the abundant transacres of they hyperbound and not one of these volumes fails to offer semething of interest and value. The present one, which, like v and xi, consists wholly of literary or theological texts, might be expected to show some falling off from the standard of us producessors so the stock of literary papers becomes exhausted; but this is certainly not the case. It can take, indeed, no papers of such importance as these which restored to us the Pannos of Pindar, the Helenois Dayrhoucket, or the Lehandres of Sophiscles, but many of the texts here published are of considerable value, and numerous points of great interest are raised.

The Thorlogical section is less managerity that it seems of the preciding volumes. The first text, indeed, 1894, is of interest as containing an unknown recommon of Tobal, which throws new light on the relations of B A and X; but Tobal is not a wildly exching work. More interesting is a any scrap of Acis axil, in which the editors find blacks of a "Western" type of text. There is nothing specially suspicions in this, but the fact, if fact it has a cartainly described discoving of attention. Forms daughts, however, arise. The scrap is so small that most of the presider readings are restored, at least partially. The most obvious is that in the 1-d, where the militers read or care per reading an appear asymmetry of attention of the president and perfect text, but it is worth pointing and that the confusion of 3 and \$\zeta\$ by no means uncommon in the more dimension white writtens, and it is not whofly impossible that always readly stands for darifes, in which case the Western reading rankless. It is perhaps a little unlikely that a for \$\zeta\$ should occur in a fact of this character, but the fragment is really too small to determine the degree of the acribe a literacy, and it will be as well not to rely too implicitly on this papyrus as avalence for the existence of a "Western" text in Feypt.

Another fragment of the Shephers' of Herman is a welcome addition to the MS-material for that work. There are some unidentified theological fragments, one of which, 1993, a victors attack for the fair sax, has been identified, independently, by both Sugnora Castiglioni (Rend. R. Let. Lond. of Sc. v Leit. 52, 1910, pp. 202-6) and Dr. Rendel Harris (Red. of the John Sylvanic Library, p. 1919, pp. 384-7) as part of Ps-vals Chrystotes. In Dev. R. S. Jose, Rept. It is interesting, and purhaps of importance for the quantities of archomicity, to find this approximally apartons work circulating in Egypt (whether under Chrystatoni's usuas we cannot tall) in the fifth of sixth century.

Among the 'New Classical Fragments,' which form, as usual, the cream of the volume, the first place is undoubtedly taken by 1904, containing dithyrands of Pindar. The fragments are not extensive, but one contains fiftous lines (mostly complete or admitting of certain restoration) from the beginning of the dithyrauli for the Thebana, of which the first three lams were extant as Fr. 70 a. This passage, with its description of the dithyramb in Olympus, is a superfectionals of Pindar's genius and a really valuable midition to our stock of Greek poerry. The mapp of Memander's Marsheson which follows it is too small to be of much importance; but 1606, which comes muxt, yields considerable fragments of several new sposshes of Lysius; and though these are not of very great moment, the first at all events, spor terrofficage, dealing with the ownership of property seized by the Thirty Tyrants and apparently sold by them to Hippotherses, is of some value for the history of the period. The next papyrus contains portions of a speech up babalf of Lycophron which the adirors doubtfully assign to Hyperides, though it is not part of the speech for Lycophron in the British Museum papyrus and the latter is not described as a or S. As they point out, there is nothing improbable in the supposition that Hyporides wrote two speeches in this case. More interesting than this is 1608, frequents of the Airibands of Amehann Secretions, noteworthy as giving as a glimpse of Socrates through other eyes than these of Plato or Xenophon, though it must be added that not very much remains. Not approximally larger are the fragments numbered 1610, but they are of greater value for their bearing on several matters of historical importance; In an elaborate introduction, a good example of the combined thoroughness and acuteness which distinguishes all their work, the editors make it overwhelmingly probable that these fragments are from the Histories of Epherns; and from this conclusion important corollarus follow. The relation between 1810 and Diodurus proves that the latter followed Ephorus closely, indeed slavishly; and this fact; while it farther diminishes such respect as historium may have had for Diodorus, increases the value of his work; which may now be taken as, in general, giving us the substance of the sartier writer a In the second place, the new fragments have a bouring on the disputed question of the authorship both of the Hellenson Osophynchia and of the fragment concerning the Orthagoridae at Sleyon (P. Oxy, 1365). Its evidence does not septle anything (Lapsine, the chief champion of Cratiguos, continues to unintain his authorship of the Hellewice Oxyrhynchia against it; Best. Phil. Woch., Oct. 4, 1919); but it seems, on the whole, to strengthen the case for Ephorea.

The other new bests are of less interest, but they include a work on literary exitieism with some new quotations need an oration on the cult of Caesar, which shows a striking boldness of tone.

Among the fragments of extant works mention may be made of 1614, the first papyrus which the sames of Egypt, comparatively rich in specimens of his lost works, have given us of Pindar's epimician older. Comparatively late (fifth or sixth century), it is yet for earlier than the veiling codices, and is of some importance as showing that the text had not undergone say considerable change between the date of the papyrus and that of the values MSS. A small fragment of the fact of Sophische (1615) gives the probably correct reading Mano for Norm in 1, 699. The fragments of Theoretics, Idulla v., vii. and xv. in 1618, despite their had state of preservation and late date (tittle century), are of distinct importance for the purposes of textual criticism, and the papyrus of Harodotas (1619) and Thucydides (1620-3) are also viduable. The text of Plato, Protegorus, in 1624 is of some interest; and that of Aeschines, In Georgiandes, offern soveral improvements on the text of the later MSS, and sorves yet further to establish the superiority of the family known as A.

It is hardly necessary to add that the editorial work is as usual brilliant. To an unrivalled skill in decipherment Messrs, Gronfell and Hunr add a thoroughness of research, a range of knowledge, and a rapidity of production which make their volumes a partified cause of pride to British scholarship.

Juristische Papyru Erklärung von Urkunden zur Einführung in die Juristische Papyruskunde, By Paul M. Meyen Pp. xx. 4-380. Berlin: Weidmanniche Buchhandlung, 1920. M. 22

Prof. P. M. Moyer's editions of papyrus texts are well known for the alaborate communitaries and wealth of references and parallels with which they are equipped; and the present collection of notable printic texts will be heartily schooned by papyrologists on that greated above. It is often assential alike for the decimberment and for the under standing of a flocum att. to compare as many papyri of the same class as possible and if a text of any particular class has been edited by Fred. Moyer the knowledge that it is sure to be accompanied by a very comprehensive bibliography will never the student a great deal of research. But Prof. Meyer has not intensly an excuptionally rish final of bibliographical knowledge; he is also a good decipherer and endowed with great mute now and ingeninty in the interpretation of texts; and he explanations, if, in common with other people's they constrains full to maintain themselves in the light of ampler knowledge, are always deserving of consideration.

It is natural to compare the new volume with the standard work of Mitters, the Juristic ber Toil of his and Wilekan's Grandings and Grandonathic der Popprusknode. Though it meritably covers a good deal of the same ground as Mitters, it is planned on somewhat different lines, and since many important texts and monographs on local questions have been published since the appearance of the earlier work, it has been possible to add very considerably to the material there collected. The appear object of Meyer's volume is, as he explains in the prefixes, to erro as an introduction, alike for jurists amagnizated with papyri and for historians and philologists, to the light side of papyrology and it can truly be said that it will admirably answer that purpose. Clearly, if succinctly, expressed, and well arranged, it compresses a vant amount of information into a comparatively small space, and its wealth of hibliographical reference enables the student to follow up any subject which he desires to study more minutely.

This single volume may in some sort be described as a combination of the two parts into which Mitton's work was divided. In his Grandrage Mitton gave a conspectus of the whole field of Gracco-Ropers law as illustrated by the Egyptian papyrs, while in the Christmanthic were collected the Manurative texts with the essential minimum of commentary. In Meyer's book, on the contrary, the illustrative texts are, so to say, imbedded in the discussion of the problems deals with. The work is divided into parts, as billows Permanurchi, Urkandenmero, Obligationement, Sachement, Straffecht, Processor he. These parts are again subdivided into sections, and for the most part the sections are preseded by a leist introduction on their subject matter; the discussion of details is reserved for the introductions and communicates attached to the single texts. Characteristic and very communicable features of Meyor's work are his translations of the Greek technical areas into the terminology of Roman law, and the very clear and billipful classifications of this parts and clauses of the various documents quoted. In snother respect his practice is less worthy of approval. It is obviously advisable, in a work of this kind, to print the texts continuously, not preserving the line-atrangement of the originals; but this unkes it all the more necessary, for purposes of handy reference, to number the single lines as clearly as possible. Mittein and Wilchon do that by printing the number of each line at the beginning; but Meyer, abandoning this excellent practice, gives the number only of every lifth line, in the margin, which is far less convenient.

It is hardly accessive to say that in a values of this size the editor can give only a limited number of texts. Inevitably one wishes here and there for a wider range of illustrations; covered subjects are felt to be madequately treated; and it is possible at times to question the selection of texts; but the same might be said of any similar collection on this scale, and probably Prof. Mayor shows as great impartiality and independent as can be expected. It was fortunate that the already famous "Guemon papyrus appeared in time to be included in this volume as an appendix; for as circumstances made it necessary to publish it with only the bars minimum of autotation.

Prof. Moyer's communitary, brief though it is, will be helpful to students of that (on the

whole) well-preserved but none the less often pariting test-

There are some unaprints, and the paper is not of the best: but those defects are not to be wondered at in the circumstances. What is consistful, and worshy of the nightest praise, is the fact that amout all the difficulties of the time German scholars about the willing to write and German publishers to publish works of this kind, which are hope for its reward but the warm thanks of all students in the field of papyrology

Kunstschutz im Kriege, (From Zeitschrift für Bildende Kund August, 1919.) Pp. 47. Laipzig: E. A. Seemann.

Four summary accounts of the work done by the Central Powers during the war in the Batkare. Asia Minor, Syria and Me operation respectively for the conservation and protection of archaeological sites and finds. The escapets work is to consist of two volumes made the same title; vol. I will be devoted to the Western front, while the other ambraces all other areas and will incorporate the present chapters on the Balkare and the Turkish Empire, where the sort done we not so much

protective measures as canal archientigical resurch

The publication, according to the general editor, Paul Channa, has admittedly a propaganitist side, but we turn to the record of archaeological work accomplished. In the Balkana this does not seem to have amounted to much; H. Dragondorff speaks of gradies projects for assessme said executions frustrated by the unfortunate incident of the Ducchlorals of 1918. Similarly, in western Asia Minor, beyond some damage by diell-firs to the Costle of Burismi, G. Baro can only speak of the dostructive activities of Turkian acono-cobburs. On the other hatel, in Syria Th. Wingami channe to have more edad in interesting that strings personage Dysmal the Butcher' in the work of conservation, and his report, which is by far the most solid dostruction. Even here, however, especially in the East domain termory, whole monuments have despected of against lafore the speciality in the East domain termory, whole monuments have despected of against the publication is in its illustrations, which include recent news of well-known nonuments as well as reproductions of new discoveries. There are some interesting air photographs

Wissenschaftliche Veröffentlichungen des deutsch-türkischen Denkmalschutz-Kommandos Herausgegeben von Tusonon Wissann Heft I. Sinni. By Tusonon Wissand. Pp. 145, viii plates. 141 illintrations in the fext Berlin und Leipzig: W. da Gruyter & Co., 1920.

In this imposing work we have the first instalment of an ample publication of the results obtained in Syria and Palestina by the German Archaeological Communicate during the war years, the activities of which have been assumational under the preceding side Kanstehnia as Kriege. As previously constitute, Wiegand appears to have been under continuously employed in archaeological work that his colleagues in other areas, and he was also successful in archaeological work that his colleagues in other areas, and he was also successful in archaeological work that his realists and tierman communicates in his lateour of conservation; the former of these, Ahmad Djenni, he indused to write a proface to a picture book which appeared in 1318 union the style of life Declarederm Spring. Palestine and Westersbire, while the litter, General Kress von Kress another actually contributes to the present work an account of the military operations in Simil which tills a third of the book. This Journal is not the place for a detailed criticism of

units as assumed, but to the present wifter, who was on the other side of the Canal, it

agons the liest thing yet written about a little-known side-campaign;

The archaeological remains asserthed in the comminder of the hook are the rains, mainly of Byrantine date, suits red on either sale of the former Turko-Egyptian boundary. Most have been described before: there is in particular the account by Woodley and Lawrence in the 1914 Januar of the Palerine Exploration Fund. There is some new material, notably an interesting anothery on Mount Her and some palacolithic implements from Kossaina; but on the whole we do not think that the English publication need abrink from comparison. It is but fair, however, to mid that Wiegand obviously worked under difficulties unknown in the prince among a peace; and his notes and pictures have the value of milkpendent expert record of minimum upon which during every to the value of milkpendent expert record of minimum appears which during every to the value of milkpendent expert record of minimum and sold heavy tail. The numerous accordance photographs are a nevel feature, and to be commonded.

Archaeologische Forschungen in Albanien und Montenegro. By C. Prascussien and A. Schouen. Cp. 104, 116 illustrations and a map. Vienna.: Alfred Holder, 1919.

This is the aighth part of the publications of the Antoquarian Section of the Balkan Commission of the Vienna Academis des Wosspechaffen. It suttains an account of two nursely in Northern Albania, which cover the area comprised between two districts which have already received detailed treatment in this series (to the scotth the Sanjak of Berat, part iii, and on the north Duckea in Montenagro, part vi). The journairs were unde in 1916, under war conditions, and the second was hampered by had weather. Exploration was naturally difficult under such riconnataness, and the writers confine themselves largely to noting the present condition of previously known remains. On the first Juniney the route by through Cettrajo Doctor Moreon Scarari Lines Dyrazzo Elliesan Burai Apollonia: At Lasses the site of Asychiscs was accordingly a logic section is deviced to the intricate topographical problems of Epidamora Dyrihachilian; and at Eiberen the late Roman exercists was unopod. The second journey by reason of rum was confined to a ride along the eastern adv of the Lake of Sentari. Of the numerous small finds and single objects recorded, mention may be smalls of a relief of Pan and the Nymphe from Datases, said to be a fourth-century Greek work, and a curious Hellanistic relief from Apollonia, which suggests the influence of the 'Gnata' portury of the opposite cost.

Harvard Studies in Classical Philology, Vols XXVIII (1917), XXIX (1918), XXX (1919). Harvard University Press, 4s. 6d.

We number the contents of the vacious dissertations which are combined to make up

The Muse barent volumes of this series :-

Vol. XXVIII. A Pailip McMahon, On the Second Reck of Ariabeth's Paries and the Second of Theophrustus's Definition of Tremela. The widely-hold hypothesis that the Peries consisted originally of two books, the second of which, containing the theory of conody, has been lost surve an early date, a nancessary. The original post-out explanation the theory than research between these

G. L. Kitzridge, Changer's Lottine. The mediaeval bles of a Roman past Lolling who had written on the Trojan War is due to a binninged translation of Homes.

Lindle Lin

Evolyn Spring, A Study of Expendion in there. Trapely Expendion is the art by which the demonstrat puts his audience in presented of the preliminary information

messary for the comprehension of the action. In this art Assolylus exists the other tragoliums; and in shoot technical dexterity he has been surposed by no successing school of playwights.

Vol. XXIX. W. C. Greene, Plate's First of Pastry. Plate's special atherances on poetry were monthed by special interests, and he formulates no general theory on the poetic faculty. His belief in the ideal world, however, led him to combain most contemporary poetry as being content with the reproduction of material images.

J. W. White and E. Cary, Collections of the MSS, of Aristophanes' Aces, a complete

collection of all known manneripts

47. W. Robinson, Joseph Scaliner's Estimates of Abelian Address a collection of passages from Scaliner's writings arranged alphabetically under the names of the authors mentioned.

Vol. XXX. J. W. White stal E. Cary, Collations of the MSS of Acadephanes' Veryon, in continuation of the collation of the Rieds published in the preceding volume.

A. E. Boak, Imperior Coronation Corresponds of the Fifth and Sixth Contarion. A study of the coronations of various Emperors at Constantinople Icon Lee I. to Justinian, and of the constitutional against according to the coronamics.

L. R. Steathers, The Rheturical Structure of the Encourse of Christian Chandian. A detailed analysis of Claudian's paregyries, showing the care with which the division into eight sections in regular order is followed, as prescribed by the thetericians.

C. N. Jackson, the Dreves Seller in the River and the Professional Politicians of Albert, a scudy of the growth of the influence of theters in fifth-century Athena.

E. K. Rand, Found Virgil's Pastry, a lengthy survey of the minor pounds, with the object of re-adirance the correctness of the tradition of Virgilian authorship.

Giuliano L'Apostata. Sugrio critica con la Operata politiche a militaria finalelle e communitate (= Il. Pensiero Greco, XII.) By Acutsto Restaunt. Pp. vii+308+ Indice. Turino, Bosca, 1920. 1, 28.

The lattest work of Monmann was devoted to the history of the fourth and afth santuries of our ers, and it is on these consures that the attention of scholars sames more and more to be concentrating : gradually the main lines of the instorted developmust are becoming clearer and the unsolved problems are being more precisely formulated. Through the labours of Seeck and Cumons, of Dides and Guffelen, of Maurice and Misson, of Asenus and Neumann and Schwartz we are coming to see the essential unity of that culture which was shared alike by Christian and Pagan; we begin to readise that both Christian and Pagan are pouring new wine introdd simokina we are conscious of that spiritual mortimin-that dominance of an inherited tradition from which neither Pegannor Christians can shake themselves free. It is this aspect of the fourth century which Rostagni has studied in the introduction to his new book on the Emperor Julian. It is isopause the new thought will not adapt likely to the aid forms that literature becomes largely imitative, that rhoteric grows ever more empty of living content, that Julian's smost truly original work lies in his satire, itself an expression of this fundamental From the partisamakip which has long mod the figure of the apostate emperor as a stafking borse, scholars are turning to new escays in nucleostanding, to a fresh attempt for recover from a close study of his own writings the personality and the purpose of Julian. Here an accurate chromology is essential—this is what makes Bider's recent papers of such importance and in this task of reconstructing the development of Julian's thought the problem of the date of the Letter to Themcation stands in the foreground. Are Geffeken and Bules right in placing this letter in 2011, or done if not rather dute from the moment when Julian was rurning from philosophy to fue for the first time the duties of a practical administrator and soldier in the devastated provinces of Gaul's

Rectagnic contembs formible in his account appendix for the latter view, and an equipment of Julian's raign can afford to ignore his argument. It is instructive to analy a carried comparison of Restagnic translation with their of Mrs. Wright in the Leon Library can give and his translation of the frequents of Julian's polantic against the California has provide. In his translation of the frequents of Julian's polantic against the California has his, I think, in several cases successfully defended the MS reading against the California restorant restorations of Neumann. For the Raglish reader, at least, the interest of Restagnic teach will probably his in his parture of Julian—root primarily a soldier as Barbarallo sees him, but "an tensico" reaking to module on a preconserved plant a resultation world winch raffusci to understand his airest—and in his translation and of the Latter to Thermatic and of the Masspogna for a se perhaps us thus lotter and in this extire that the Emperor has given as most of his anti-parture of l.

N. H. B

How to Observe in Archaeology. Suggestions for Travellers in the New and Muddle East. Pp. 103. Leaden: Printed by order of the Travellers of the British Massam, 1920. 2s. 6st.

This is a compressed maintal of archieological information of the most varied amin, from the BlackBeatfon of flints down to the prior to pay per square feet for paper. The object is explained by Sir F. G. Kenyon as being to provide information for the guidance of travellnes in the Near and Mindle Es a who are interested in antiquities without being trained srehandogists, and its publication is the interess of a recommendation manually the Archandogical Joint Committee, a body recently established, on the tentiative of the British According and at the request of the Foreign Office, to focus the knowledge and experience of British scholars and archanologists and to place it at the disposal of the Covernment when advice or information is messed upon matters counsated with archanological science.

An introductory enapter by Mr. G. F. Hill; the general editor, is followed by notice our equipment and method by Prof. Fluiders Petrie; their cone sections on Flint Implements, Greens Proper J. P. Droop), Asia Minor (J. G. C. Anderson and J. L. Myces), Cyprus (J. L. Myces), Central and North Syris (D. G. Hogarth), Palestine (R. A. S. Macalister), Egypt (W. M. Finulers Potrio), and Minopotamia (H. R. Hall). The information given aims at enabling the traveller to turn to scientific profit say chance discovery he may happen upon, and to recognis for himself the significance of potaherds or other small objects picked up or length. Several plates of comparative alphabets, pottery types, and implements are provided, and at the and abstracts are given of the 'Laws of Antaphibies' in force in the various areas.

Discovery in Greek Lands. A Sketch of the principal Excavations and Discoveries of the last Fifty Years. By F. H. Mansaata. Pp. 127, 28 Plates, and Map. Caparings: The University Press, 1920. 8, 6d, not.

This unpretentions little work sines at giving the general reader some bles of the additions made by the excavations of the past tifty years to our knowledge of Aucient Greece's but we are of options that the specialist also will find much of interest and profit be so careful and securate a survey of recent discoveries, with its detailed bibliography and numerous illustrations of sites and finds.

The remains discussed extend from the earliest period down to Roman times: Mr Marshall does not confine himself to more description, but freely illustrates the algorithmace of the individual finds in adding to our knowledge of Greek life or art. We observe no mention of excavations in Cyprus later than of the Mycemanan paried; and same reference might be desired to the finite at such sites as Kortak or Ollom Mr. Marshall adheres strictly to his chromological limits we could wish for some account, however summary, of the considerable work done by explanes like Newton, for instance, whose activity has beyond 1870. But in saying this we simply imply that Mr. Marshall's work is so good that we sak for more; may be publishers some be inspired to produce a similar account of the additions made to our knowledge of ancient times in the western half of the Mediterraneous.

Le Culte des Héros chez les Grecs. By M. P. Foguage. Extrat de Mémures de l'Academie des Inscriptions et Palles-Lattres, toms xlii. Pp. 186. Paris : Imprimerie Nationale, 1918. 6 fc. 20.

In these days of anthropology and evolutionary theories, it is refreshing to turn to the chem-cut outlines and tranchant vigues of M. Foucart. In the present work he akotohes the priors and nature, development and decay of the lowest class in the Greek historichy of supernatural beings, manualy, the Heroes. The earliest stage of the Herocult be finds in the barral customs of the Mycensean aristocracy; even after his death the lord was as object to be feared and proposited in his tomb. As for the commonalty, they mattered as little in death as in life. Though the belief usemie alien to the Greeke of Honner, who burned their dead, it persisted throughout the Dark Ages and comes mile prominence again in the seventh century a.c.; Aratomenes being the first historical character to be haround. To these hence of history or pre-matory were added a number of others, deliberately invested, often with the consivence of the Oracles, to satisfy the natural dearrs of families to enhance the splendour of their padigree, or of public testies to secure than salves some supernatural protection. Athens held aloof from the later erans for harolsing for several reasons there was a gire of horozo of the prohistoric period : It was contrary to the dismocratic instinct , and the Eleusmian mysterios gave a new turn to their eschatological conceptions. The one apparent exception, Sophoche-Degree, is an example of a private intro, not of a public cult. But over the rest of the Greak world now here wills were constantly coming into existence, the colonies being capacial ainners in this respect. Finally, by the time of the Empire we need unasters herosang their mayor, prous citizens berowing themselves, and public bodies horosome deed infants as a mark of respect to the sorrowing parents

Hellenistic Sculpture. By Gev Dacress, a monthum Lacturer and Vellow of St. John's College, Oxford, and Lecturer in Classical Archaeology in the University of Oxford. With a Profess by Professor Pency Ganones. Professor Pency Ganones. Professor Daford: Classical Process, 1920. 16s and

This volume is not only a measurement to a scholar whose death is a great loss to classical archaeology in Emphand, but also a scrious and suggestive contribution 50 our knowledge of Hallemetic art. It might well seem that into so short a space—less thus 100 pages of large print—is would be impossible to compress any adequate discussion of the connerous and complicated questions involved. Darkins would denoteless have worked our many at the problems in more detail had be lived; but what he has given as suffices in many more to indicate their solution, and his countries and affectly of judgment are purped to a real ineight into the artistic character of the various schools.

Daskies challenges from the first the attribution of decisione to Hellentelli art, except as regards the schools of the mainland, to which Piny's wall-known saying-

"cessard duindo are 1 (200 m.c.), may well apply. But the great and floureshing emode of Purgamum, Alexandria, and Rhodies are the true representatives of the Halloure regimen. The book is mainly devoted to a study of their strainments and the distinctions between them. Beginning with the Pergamum, Ficking tries to reconstitute its character below the well-known monascents of the statement over the Gaule, and traces a mixed influence of Prenticies and Scopes in its semand and contain qualities. He rightly strainages in this commerce, the commerce, the commerce, the commerce, that the true reading as Plany is the labor, a Rithynian tensor part is Monasce, that the true reading is Plany is the labor, a Rithynian tensor limit for all the softness of surface modelling, it is noted that the Pergamumos tend "always towards observating of heir and tearners, while the Maxamiranes preferred an improvedual smoothing away of all sharp edge.

This quality of a biguidly insusperent enriace, the Imbun merbeleth, the face mental above through a alight hand, is taken by Dickins as a test of Alexandran work; cramples are seen in the new Aphredica from Cyrone, in the girl's head free Chios in Boston, and in the Enbuleus and Impus heads. These fall into their proper plant, not as Pracitelesia originals, for which seems of them have been statuned, but as a poculiar development of a school derived from Athens. The whole group of works, which has business been very pushing, cortainly seems better explained than on any previous hypothesis. One is remarded here of M. Perrot's criticism of Egyptim scalpairs. The Egyptim, he says, "seems to see the hisman body through a time vail which hides from his view all secularits of aurface and all unessential features. It is at leads a surpose congridence that a similar tendency should occur in the Alexandrian broads of Greek in

The question of the so-called Hellemstic reliefs is discussed, and Diskins's conclusions will probably meet with general approval. He astributes the pactoral reliefs to Alexandria, the artibological to Rhodes, and the intimate and domestic scenes to Pergamen, while, of course, admitting committently modifications in their adoption at Rome.

The Rhedian School, with its hypippean traditions and its well-known groups, is also considered, and works like the James and the Borghese warrier assigned to it. The Subject boy, with its conderful softness of modelling, seems strangely misplaned large. As to the Victory of Samethrace, Dickins surely goes too far in assorting that 'the status has no connexted with the control Democrate Poliorectes. The inference does not seem more than one easily be explained, and the connections would be stronge indeed if there were no connexten. To induction photographs, the figure on the unin has a high girdle like the status, nor a low one, as Dickins states, nor does the position of the right shoulder of the status meem to make a trumpet impossible.

Incidentally, many well-known works are assigned to their proper relations: instances age to be econ in the Capitoline Aphrodite, as intermediate between the Capitoline and the Young der Medici; or the Aphrodite of Medic in relation to the many other incluses of the half-diagon type.

There are many details which require further disposition before any final conclusions can be reached. But Dickins has done a great service by laying down the broat lines of development of Hellemetic art. The Bustrations are well reproduced and well shown, and serve to enable any resolution follow most of the discussion in the text.

The Birds of Aristophanes. By E. G. Hannan. Pp. viii. 4 135. Lombon - Arnold, 1929. 10s. 6d.

This book belongs to a numerous class of communitaries on the Bork which act out to discover an undercurrent of policial heady beneath the apparent explorance of numerous in the play. The present variation on this them assumes that the correct whom Arabaphanes and established conveyed their meaning were the bester-days.

Atheniane, who sighed for a return of the constitution of Christianos. These, so Mr. Harman augusts, would read in the blockade of the 'gods' by the 'birds's scheme of Alcibiales for the conversion of the Athenian expeditionary force in Stairy into an anti-domocratic armada, and the seizure of Sixily as a base for the reduction of Athens.

It is impossible to prove or disprave in set terms the thesis maintained by Mr. Harman's aclosed, for it must remain a matter of personal tasks whether we profer to take the Birds at its face value or explain a away as an allegory. But in the latter man we have a right to expect that the allegory should be apposite and telling. Mr. Harman's unerpretations solden fallit these requirements. To take two tustances : in L 173 agg. the witer "through which everything passes" is equated with Sielly as the prospective center of the world's trade. Surely this does excessive violence to the economic map of the lifth century. In 1, 600 opp, the clive tree which is to serve as the birds temple is identified with the secret alive on the Astropolis, "when the Astropagua, the sent of government in old days, was situated. But the Arcopagus and the Acropolis are quite distinct hills. The most serious objections to Mr. Harman's theory, however, are based on breader grounds. As the nuther himself admits, Arszophanes sympathias were with the medigrate, not with the extreme oliganche but this party would surrainly not have countenanced a reduction of the democracy by a 'Melian lamine.' And supposing that anch a scheme had been afrot in 415-4 n.c., there is no tangible evidence that Afribados favoured it, or that the expeditionary heree would have lent itself to an auti-democratic enterprise. Mr. Harman's allogary therefore heads to nothing.

A word of pulse is due to the introductory shapters, which contain a shrawd and

well-balanced account of policical conditions in Athons in the fifth century.

The Hittites, Schweich Lectures for 1918 By A. E. Cowley, Pp. 94, 34 Illustrations, London; H. Millord, 1929, ds. not.

Of these three lectures the first two same up, with extreme continu, what evidence was available up to the end of the War about the Hattie people, Hittite civilisation, and suppolally the languages spoken in the Hittite area. The third lecture is devoted to an easy in desipherment of the hieroglyphic script used by Hittite peoples, whether in the full histographic style or in the conventionalised linear style. Here again Dr. Cowley shows great continu, claiming certainty for hardly any character-value, and making no attempt to suggest values for more than a very small proportion of the known signs, much loss to interpret the few words conjecturally deciphered to doguatise about the nature of the language or languages to which they may apportain. The locare is very calcable for in demonstration of the incertainty which still basets even the most radimentary interpretation of Hittite inscriptions, and the folly of basing any historical pressures on even proper names said to occur in them. In the second beture the less desperate, but still most obsoure, problem of the interpretation of Hitrite accuments in a known script, the Akkadain canadiana, but in accent or eight languages or anderts all of most doubtful affinities, is stated. Like Sayes, Dr. Cowley declines to endorse Hromey's confident discovery that the main native Cappadocian language is akin to Old Latin. Till that contention provides reasonable explanations of the Cappadocian words whose signification we know from the lexicographical tabless of Bogharkens, he turon t down. And, indeed, he sould hardly do otherwise.

Dr. Cowley does not enter into any Hittite question in which the Eastern influences upon archaic Greek art are involved; but he throws out the hint that Lydian hingmage and culture may prove to be infinitely connected with the Hattic—more intimiately undeed than the intermediate Phrygian. For further light on these interesting questions we have to will, with what patience we may, for the resumption of the American excavations at Sardes, and perhaps for a revised publication of the Lydian inscriptions

already discovered. The whole embject of the Asiano peoples and their culture, both early and late, is one that calls for climidation, and there is recent for any sumber of workers. Meanwhile, nothing better can be done than take stack of the known and the unknown to date; and this, in regard to what was probably the most important of all the Asianic cultures, the Schweigh betterer for 1918 has done conveniently for many

Phenicians. Essa de Contribution à l'Histoire autique de la Mediterrance Par-C. AUTRES. Pp. 146. Pares : Paul Gentlmer, 1970. 30 fr.

When the Granks of the Bassical age spoke of Phoenicians as their schoolmasture in letters, art, and the higher civilization generally, they did not mean (though they were by no means clear on the point) the buristering Semitic race of their own day. but an elder people that had once held Tyre and Siden. This was not Samite but Concerning and from it were derived all these busines manies of gods and the like in which Hellenism abounded. From it too was durived the great gift of Minone-Myoenasan callaire. This people was really the Carian or Cam-Lulegian, once spread over mainland Greece and the lake, but surviving, as a recognisable entity of classical times, only in south-western Asia. Such is Ministerr Autyan's held contention. He admits a parti pris at the sumet. Only certain stocks, says he, have proved themselves dynamic in civilization. The Semitic is not one of these. The Caucasian is. Eige a risea which the Gracks acknowledged for measure in culture manner have been the former, and tt is long odds it was the latter. Having posed his hypothesis he finds no difficulty in foreitying it by appeals to philology and Greek tradition, and to a loss extent, archaeology. In the last science in acknowledges less compensors, and confines himself to quotasion of others, chiefly to produce a negative result. That is, he does not attempt much more than a demonstration of the poor quality of the work of the historical Phorniclane, as illustrated by absesseries in Syria, and especially in Punic Africa. But in the domain of Oriental Philidiary he makes great play. Chaming an acquaintance of twenty years standing with most of the tongues spoken in antiquity from Indea to the Mediterranean, he supports all the namily accepted Sentite elements in Greek goal names, etc., etc., to draids describing criticism, and, excepting all the dust beep, he points to an immente socidum of amorphismed foreign words and things, which are not Sensitic any more than Greek, but are, he is sure Cancasan. Nor dom he find greater difficulty in calling from Great tradition any amount of confirmation in the shape of fibertification of Phoenicians with Carians, Carian production of arts, crafts, etc., binially regarded as Phoenician Carlain penetration to all the regions in which the Syrian traduct are said to have found their markets ; and so forth. It is not quite their windfour he credits the Caro-Leloges with having been actual Cretain and responsible for the invention and practice from the dest of Minoun culture. If he means that, he will have difficulties with the very tradition on which he relies, for Herodoban, Thueydides, and Strabe- a strong combination - agree to distinguish the Caro Laleges from the Cretain, while they testify to intimate contact between the two peoples. But, whicher or no, he certainly means that the Aspent torch was passed on to and by the Carian folk, and that much of what has any reed from of Minnan-Myrenman art was its work. Thus, with the milable difference that he is anti-Semite, does M. Autum revive the contention of Helbig that Phoenicians were the authorn of the orgination called Myconson in

Whatever he thought of the purpose and main contention of this feety, there is no denying the harming and the holistry that have gone to the making of it; and, irrespective of agreement or disagreement, it will be found a mine of evidence and rull of anguestion. Nor has it been written in vain if it brings once more to the front the very great part which emicrobially the Caro-Lalinjana did play is the evolution of Helicaian. The most otherwising and at the same time most absence chapter in August history concerns

that people or people. It was the re-Leisgian civilization which complet the west count of Axiz Miner before the Helianic and made the rapid growth of fordin culture possible Curama were in the Black Sea and the Egyptian Delta before Grocks; and though they anoquentionably were not the authors of Mineau culture, they want to have been the first beins of it. Does not Harogorus tell us that the Crotans themselves apole of the Curama as the most fauncus people of the olden time:

L'Art greco-buddhique du Gandhara. By A. Fascines. Vol. 11., Premier Fascicule. Pp. 400, 4 plates, 275 illustrations in the text. Paris : E. Levesta, 1918: 25

Tim tiest values of this masterly work on the Buddhist art of North-West India received. notice in the pages of this Jessenal sa for leads as 1907, and comprised descriptions of the buildings and has reliefs and the interpretation of the latter to the light of the Buddhiet literary traditions. We now welcome the first part of volume two, containing an account of the status. But it is much more than its title implies; it is an entire system of Bialdhist iconography, compensing both relief work and statuary. Herein lies the feature which makes this part even more interesting than the former volume to the paraly Occadental scholar, that the writer, in identifying the plastic types, traces and analyses more fully than previously the influence exercised upon these types by the Graces Ruman models in their strange environment. To give an instance ; according to all literary tradition. Buddles should be represented with about head as a tonsured monk; but in the are of Gandhica his type has been to sted by a craft-man whose hamil had been trained to carve Western types of doities, and ac to the and Buddha esterns the waved lodes and probable of a fourth-contary Apollo. Yet in all save plantic type, M. Foucher bids as remark the complete subservence of the Graceo Roman influences to Oriental religious ideas and conceptions, the vigorously treated Lysippean Hameles in Labore (Fig. 325), for example, is no Heraelss but a Yakaha, and amiliarly the Athens (of Fig. 342) is no tireak delry but simply another type of the more ambiguous Indian budy figured alongside. In this comparion reson a point of municipality interest; on the series of Grasco Indian coins, the deities admittadly begin as purely Hellenic Intype and end as parely Indian; are they not Indian dulties, even from the theat? We awain with interest the final part of this admirable work, in which M. Foucher will resume his conclusions on the history and subsequent influence of this far-flung rapple of

The Cemetery of Pachyammos, Crete. By Richard R Swann. Pp. 30, 21 Plates. University of Pannayleania Museum; Anthropological Publications, Vol. VII., No. 1. Philadelphia : 1916.

Mr. R. R. So ger continue his useful publications of his excavations in the ischains of Hierapetra, in Crosc. He has regularly kept us up-to-date with regard to the remits of his work. The present number of the Pennsylvania Museum Authropological Publications, acontains the reserved of excitations carried on in 1914 in a Mineau contained on the bash at Pachyananos, the small barbour on the north reset of the bathour, by a great stress in the previous year. The work furnished additional proof of the great subsidence which has taken place since Mineau times along this part of the scant. Fully half the burial jars were found standing in a water, and it can barely predoble that this was the case at the time of interment. The countery originally stood no doubt near the edge of low cliff overleaking the sea at this point and the ground has since and, carrying with it the burial below the modern are level. The

miami of Mochles, not for oil, was an Mincan slays mean related at all basis perimeds, joined to the facet by a small tetherest, on either side of which was a harbour. And on the larger side of Picira, off the course, which of courses was always an Island, the houses of the amount town descend from the hill into the seen, and from a beat one can look down into the dwallings of the Mincan mhabitants.

The semetery manns to have continued in one from very early times down to the I M. I. paried. The discovery of child barriels in E.M. HL pote, a small oval farmer of apparently the same date, and a few stone vases of the early type milliont to show that the firm burials were contemporary with those discovered at Modelles. Partin, and the Gournia senstery at Sphoingaras. But whereas at Mochlos and Parira the greater number of graves dated from the E.M. period, here the M.M. I., M.M. III., and early L.M. I. periode play the most important part in the history of the cometery. As al-Schoungarus, and in contrast to Machles and Pietra, the patricky of small objects found with the dead is notable , the majority of borial lars containing nothing but fragmentary human remains. No scal-stomes were found. Mr. Seager gives some admirable reprodictions of the heat burial lars, which add many one examples of Minean curamic decoration to the great number already known. The jaz with the shoul of dolphine (Plate XIV.) is very line, and Mr. Sengar with it publishes, by parasission of Sir Arthur Evans, who has not yet published it himself, the splendid fresco of delphins and lish found in the Palace of Kinesses. Both are of the M.M. III, period, Another good dolphin vaso, of the transition from M.M. III. to L.M. L. is published in colour on Plate IX. Of all the vasce published in the twenty-one plates the photographs and solous reproductions are excellent.

A modable feature of the necropoles is the evidence of the thoregard of the Minocass for the graves of their forebears that it shows. Earlier moderness were ruthlessly broken up and shored out of the way to make reams for new circs. The burials were primary, that is to say, the bodies were placed in the jar some after death and left there, trussed up in a sizing position. They were put into the jars head downwards, and the jar was then placed on the ground bettom up. All the jars are small, and considerable force must have been used to emmit the bodies into those. Secondhood or broken pare were often considered good enough for the death. There was apparently no mark above ground of the existence of a connectory.

We gain an interesting innight into the burnel customs of the Jesser folk of Mineau days from this excavation, and on this account to is worthy of special remark.

H.H.

Hittite Seals, with particular reference to the Ashmolean Collection. By D. O. Housers. Pp. 108 folio, 10 phone, 115 per illustrations. Oxford The University Press, 1920. £3 13s. 6st.

Mr. Hegaria in this handsomely printed and illustrated volume has published the remarkable collection of Histie or Syna Cappa began and it is the Asimobian Museum, shich he has made the most important in existence. In the ten photographic plate at the end of the book 335 seals of this collection are most reproduced, and in the text 115 other examples are illustrated cheefly from the British Museum collection. We have now for the first time an adequate publication of these interesting monuments of the saily at of Asia Miner and Northern Syna with an illustrating obnominary by Mr. Hegarit, which in many respects throws now light upon various debated questions as to the meaning of their engraved designs and a to their date. With regard to their origin there he no question at issue. They are what Mr. Hegarit shortly called the Hirtito Giyptes, the glyptic set of the constituted with the Kheta or Khata of the Egyptian and Masopotomians, the Children of Histies of the Ribbs, whose remarkable monument from Reghas Kom, Yasili Kaya, Engula, Carchemuch, and elsewhore, with

their poculiar ineroglyphic inecriptions, have recently been republished in a hands form in Dr. 4, F. Cowley's Schweich Lectures for 1918. The Hittite hieroglyphs not schlom appear upon the male, and the whole persons it their designs demonstrally belongs to the sains act as the greater manninents associated with the Hitties. They show also, as was to be expected; many points of contact with Mineau glyptic art on the one side and with Babylimian in the other, me in the laver examples are Egyptian influences indiscornible. The existence, which is now certain, of a Seminio Babylonian population in the cis-Tourns region (the district of Argaeus and Camaron Marson, the modern Kansarrych), as early as the time of the Dynasty of Ur of the Chaldren, about 2.500 me, which was later. estingmished, no doubt by the Hittines, gives us the reason of the strong Babylaman elements in Hittile glyptic Mr. Hegarth also makes several interesting references to the hypothetical Minoan-Hittite Maddana of the Eastern Kermans of Cilicia, where, in all probability the land of Abshive so often mentioned in the Egyptian is suprime and in the conscitorm Tell-ul-Amarna letters is to be placed. And this suited are is closely couns ted with the early art of Cyprus, where from the afficently or fourteenth century a corwards we see occidental and oriental artistic elements always contenting for the mastery: One speaks of this presumably Cilician art as hypothetical, because no excarations have so yet been carried out in Cilicia which would give us arehandegical authority for so describing it. There can, however, he fittle double that, if ever in the future excavations are made, presumably not under French anspires; in Cificia, the strata of the layer Browns Age will yield the characteristic seals, livery curvings, and other objects, hitherto found chiefly in Syria, in Cyprus or in Egypt, which are on many cogent grounds to be assigned to Cilicia as their place of origin. To distinguish the products of this mixed art from those of the line Hirrite style as a study of the greatest interest, and it to to be hoped that Mr. Hogarili will later on publish a study of the works of the presumed Cilman style, to which many of the supposed Minam cluster discovered in Cypris and in Egypt abould in reality belong. So far as the gammady Hittite set is concerned, he has in this commentary on the scale written a most marful study of its characteristics as revealed in the domain of smaller objects, and his chapter in the Daring and Local Grigin of the seals farnishes conclosive arguments for the dating of the farger menuments, which will commons the modern to all who understated matterof arriotic style, and do not need the authority of an unerription to tall them the approximate dute of an amount work of art.

L'Hellenisme primitif de la Macédoine pronvé par la Numismatique et l'Or du Pangés. Par J. N. Svonosos. Ph. 262, sich 10 Plates and Map, no Index. Paris, Lerson. Athans. Elefthorogodaks. 1919.

One of the chief raults of this book is apparent in its rifle. If the author had realised that to demonstrate the Halleme character of the population initiating North Essera Macedonia two thousand years ago does not seek the solution of present-size political problems he might have produced a more scientific work. This is not to say that the book is some proper sults, there is too much special pleading, can beston haved on far non-dealer grounds are continually used as springiourds for further plungs; but if the reader will pursecvore to the end of the book in space of its happarard arrangement sulter minurous wrong references he will find that his ideas have had athorough alicke upon that several altributions which he had inthered accepted without question are none-tio well grounded.

The work falls into two parts in the first (of which the substance has already appeared in the Journal International of Archicingle Numberality of the 1913), the authorials the substance of under come congruent by numberalists generally as being of Thrace Massolanian origin—cone of them inscribed with the name of more or less

known tribes with to them several more on grounds of type, fainer or symbol, and arrampts to a sign them to various Par mian tribes or Hellanic vities whose position be proceeds to locate in the districts between the Axius and the Nestun. In the second part he was himself to identify the gold college which he thinks must have been struck in these same districts in view of the sun gold mines which they contain, and this bod's him to transfer thitter much of the primative electrons comage hitherto given to Jonea and

morably the so-alled lomine-reveat issues.

he the first part the symbols on which M. Svorones edies as evidence of Pasterina origin are two: a lotaform flower (the Pangaoun rose), and a disk sometimes floral. sometimes some. But though the appearance of either of these two symbols on a consuggests at once that it may have been struck in Macedonia. It is by no means conclusive evidence; for meranes there is a typical ' Pungaean' rose as symbol on an archaic coin of Larrison in Thesealy (B:M(C. No. 6) and an ormally typical disk symbol on a coin of Idalism with the type of the sphire (B.M.C. 2-1). So typical indeed is the latter that M. Sycronos apparently regards the coin as Macedonian (see his Pt. XVII. 15), but its Opprists origin is beyond dispute as apart from questions of type and fators all the three counts of this class in the RtM were found at Dair uself. The general method adopted is interesting, but should also be bamilled with far more continu than is here imployed. The author supposes that the boundaries of the profectures into which the country was divided under Turkish rule, drawn as they were along physical and economic lines, are traditional, and omline what must always have been local units inhabited by tribus or within groups. He then takes such coins as bear attheir suscriptions and with jorvolunce as a pointer, icked out by the scanty blessive evidence, he searches the map for a modurn place name which may emocal the classical sthuic. Time the Dergones are he sted (probably with justice) near Lake Poinn, the Tymeni mear Territors and so on With two or three points thus axed to his satisfaction the rest follows early the more so porhaps as the bulk of the coinege is unmeribed. Arguing in turn from aunicery of type, symbol and weight standard, he distributes the equations coins among tribes where legation he attempts with more or less success. We may affaire the derracity with which the juggler keeps so many balls in the air as the same time and his address in throwing up another to distinct our attention directly one falls to the ground. but there the matter ends as regards the majority of the attributions. The cautions rumismustret must still be content to class the bulk of these come under the vaguer talls of These Macadonian. Incidentally, however, many interesting points are raised of which only a few can be taken here. The attribution of the hitherto uncertain coins with the sphins type and legend At , . to Asserns is tempting and will probably firm acceptance : rt is a notions somenhause that there was an important cult of Ariemis at Assorus just as there was at Perge, one of the very few other places which used the sphins type. The octudirachine of the Decronian group with Pegasua for reverse type and a legand hitharto regarded as abundared, are sarribed with considerable likeliheed to the Larmi, a tribe mentioned by Thucydidas, and the didrachuss with the goat type hitherto attributed on insufficient grounds to Augan im attributed to the same group on the strongth of the monograms AE (Derrones) said AA (Lacaci). The latter attribution to, however, not william difficulty; for the goar type come of the Lacard, sithough without process type and therefore earlier, are of bester sight than their nebulrachus. M. Svoroses holds that there was no regal Macedonian sumage before Alexander I and assumes (which is more doubtful, that the kings allowed no city of theirs to exercise a right which they do not us. then alves. We have seen how he deals with the cours formerly given to Aegae, but he has also to find a new home for those bearing the ethnic IXNALON hitherts assumed to that Johnne on the Therman Gulf. New Stephanus mentions an Johnne in East-ru Macedonia and the author assigns the coins in question to this city, which he locates at Zhehna (it "lynn), cast of the Strymon, justly remarking that both the types and the high weight of the coins find their element analogues in the cours of this morphbouring Edones and Orreson. Before leaving the first part it may be remarked that the legend of the come with the new and how types (Pl. XVI 43 and 50), on strength of which those pieces have been assigned to Methon, is or the one case highly problematic and in this other non-existent, and that the attribution to Siris of the error with the type of the large Silenas and nymph, formarly given to Late, breaks down for a smaller mann, on while their largest, whatever it may be, does not look like AETA(O), still has does in rescipite SIPINON.

The same general critician applies when M. Scarones in his second part attacks the question - Are there early gold or electron coins assignable to Macadama | He makes anch large claims that in pure critation we are upt to megative them all. His ware that the electrical cointings carriedly assigned to the tonian revolt was in mality serged to the districts round Myrchus under Milesten influence has already been dealt with in a royaw by Mr. Hill in the Numeroutic Chemicale (1919, p. 312) and meet not be further discussed here except to say that the provenues of the coins is overshalmingly toman Some of the other attributions, however, require more serious consideration. There are three lines of argument that may be followed, the argument from style and fabric. from type and from preservence. The first and especially the question of fabric is here general; affirm certain Thraco-Marsdoman silver come without reverse type have a challow incress square set in a metiocality flat field, the majority of electrons come on the contrary have a comparatively deep themse in a rough finit, and the other evidence sould have to be very strong before we could accept a common place of origin for two such different fabries. There are, however, curtain electrons come with a flat reverse fabric and some of these may well be Mace-loman. For example, the status at Munich with the griffin's head type and the hitherto unexplained inscription IIO€ (here PLXV 1), formerly given to Toos, is connected by M. Svorone s with the beavy pieces of the griffin type (already recognised by von Fritze as not belonging to Alatera) and temptingly essigned to the Dii. Again the type of the electrons coins with the goose and heard it as exceptional that it is almost impossible to separate it from the silver Thraco-Moodonian come of the same type and their prevenues some generally Macolonian. The same may he said of the electrons pieces with the curron type of the quartered cube there explained so an impot) and in so far the claim that they are Macadimian may be provincionally accepted. Programmer indeed orast in the end be the chief argument in such attributions if only sufficient evidence is forthcoming, and it may therefore be worth while to give the results of an examination from this point of view of some of the some in the British Museum assigned by M. Sveronou to Macedonia. Of eight examples of the pieces with the solar disk in variege forms (here Pl. XVI, 6-8, 25 etc.) two are known to have been found in Asia Minor, one was brought from Smyrpa, two came with parents of effice coins from Asia Minor, two came from collections formed manify in Smyrna, while the prosuccess of the ramaining one is quite uncertain. They therefore seem to be Asiatic, though as far as fahrin goes some of them might be Maccriobian. The electron ataters with the gorgoneson type are brought by M. Svoronce into connexion with the affiver come usually given to Neapolis Datonom, but of the two examples known, that in the Wardington Collection was found in the Dardanelles and the other came to the British Museum in a parced of other Asiatic coins. Apart from this this electron pieces have a reverse type which the silver have not, and their styles are quite different. Again, of the two pieces with the Pegasus type (Pl. XV. 26) the one whose processmer is known some direct from Smyrns, and in any case the fabric seems typically Astatis. To proceed would be to turn a review into an erricle, but enough has been said to indicate that while M. Svoromer exuberance should be hearth discounted a should not blind us to the suggestiveness of many of his constitutors and in particular to the case he makes against these who would seem all chartrum comage without exception to hom Miner

Delphi. By Fuzzurus Poinses. Translated by G. C. Rionanie, with a Profession by Pancy Gaussia. Pp. 21 + 238, with 164 Illustrations in the text. London: Gydendal, 1920. 21s, not.

As Professor Gardner observes in his introduction, it is not easy for the English scholar, who does not happen to be an archaeological expure, to form any idea of the additions made to our interioring of ancient life and art by the recent excavations on the observed it the centres of Greek life. The official publications are bulky, expensive and often as yet incomplete, and other sources of information are estimated up and down in many tongues and many learned journals. Athens and the predictoric sites form an exception, but Doles, Olympia, Dolphi, Miletin and many other sites remain in consequence very imperfectly known. To take for instance Delphi, the subject of the present work all the world knows the Chariotece and parhaps the Agias; but to obtain any libra of the site as a whole would be a task involving much laborators research; the only intalled account in English, we can recall at the moment is that given in the notes of Finiser's Principles; and this is invited topographical and contains an illustration.

As far as one site is concerned, the present work worthing fills the gap. First come introductory chapters desiring with the cult of Apollo, the oracle and the part played by Delphi in Greek history, then in chronological occur and with ample illustrations the principal remains are described, the conflicting theories as to infentiteation or alignology briefly discussed and their contributions to our knowledge of artiflustrated. No better hand could have been found to write such a book than this of M. Ponison the Isaruel keeper of the Ny-Carleberg Collection at Copenhagen; he brance his site thoroughly and has the advantage of utilising hitherts ampublished material of his master, the voteran excavator, M. Homolle. Purhaps the best part of the book is the controversial, where conflicting theories are exposed with admirable heading and brevity, and judgment passed upon them in no uncertain terms—the infortunate Pointers comes in for expecially error castigation in this respect. The best warrion originally in Danish in 1919, the translator, Mr. G. C. Richards, has admirably preserved the nervous force and crisp tyle of the original. The Bustrations are excellent

Orpheus Einer-digiousg schichtliche Unteranchung. By Orro Kens, eith a sapidment by Joseph Starvoowski. Pp. 89, with portrait and two platte. Berlin. Weitlmann, 1920. M. 5.

Four essays apparently forming part of a Federal place and to Carl Robert by his pupils. This first part is a re-examination of the begind of Orpheus in literature, leading to the conclusion that the figure of Orpheus as the fournain head of the Orphic sect, is of much later appearance in Greek religion than has been supposed. The Orphic Theogony is next examined in comparison with the other Theogenies; its main difference in contrast with, e.g., the Hestodic system, is to mainly temperature with the well-known Orphic might of the death of Zagrens and the part played by the Child in the Greek mystery-religions.

The fourth essay is an independent production by Straygowski entitled Orpheus—wild recognitive female & Bilder, and is illustrated by two plates. The type of Orpheus in act is one of a cycle of expresentations of the Good Shephard in the midst of his flock, and this cycle should be traced back through Christian and Chasteal set to Persia and to

Mindean influences.

L'Arménie entre Byzance et l'Islam depuis la Conquête Arabe jusqu'en 886. Par J. Laurent. (Bibliothèque des Écoles françaises d'Athènes et de Roune, Fast 117.) Pp. 336, 1 map. : Paris : Fontemoing et Cie, 1919. 20 fg.

This is the that part of what president to be a most exhaustive study of the medicayal history of Armenia by a French scholar whose produced knowledge of the sources runders. him must competent to do it. This volume covers the partial from the Arab company in the seventh century to the revival of the Armonian monarchy under Ashot in the ninth. The position of Armonia in this period batness the Byzantine and Arab, empires was an interesting one. By the treaty of day are the Armenians became nominally cassals or the Caliple but retained so much of their fendal liberties, and repectally religious fraction, that in spite of the presence of Arab governors they had practical automony. Byzantium, on the other hand, mover were up its claim to seneralize. Naither the Byzantine emperor nor the Caliph had much affection for this turbulent people, but they recognised the resportance of having them as a bulwark on the frontier. The Arabs could not risk throwing Armonia antirely on the sain of the Greeks, while the Emperor felt that a strong Armenia was a defence to the Bosphorns. The Armeniana however, neither agreed among themselves nor suth their neighbours, so that autonomy did not become independence while the Arab enquire flourished. By the multile of the null mentary, however, the Abbased Caliphate was tottering, a strong Emperes had as ended the throne of Constantinople in Paul the Macedonian (really of Armenian origin) and was Forming his aftention on twards

Armenia was then courted by the Caliph, who allowed his to choose her own governors, and by the Emperor, she opportunally discovered the circum of St. Gregory and found in Constantinople roles of him and of other Armenian wints. Armenia might have at once during to ensisterable wit untage from the constant had she bean maited, but for twonty years the intrigues of Araba and Bysantines performed the messas of the effects of the side of not over-example as primes Ashae Registrant to conscipint Armenia. It was not till 886 that the Caliph smally recognised the latter as large of Armenia, and the Emperor, still admiring to the flatter of line superainty over Armenia, sont him a golden crown.

How nominal was the restoration of the Armenian monarchy was insualed on his death, when the country very soon had as many kings as it had providingly had prince-lings, with the result that it seem present under Bygantaum.

M. Laurent's prissant reduces steps with the death of Asher I. It is a singularly important analy of autonomous Armenia. He history, encourain conditions and prosperity uniter the Arabs. Appendices deal with the reportantly and go graphical nonunculature of Armenia, the quantum of the autonomy of the Armenia chareft, the Arab primer patties of Armenia, and conclude with enhancing genealogical fiels and hidden patties. The teach has a very full index. Students of the mediacout instory of the native field will asked interest volumes with integers.

Byzance et les Tures Seljoucides dans l'Asis Occidentale jusqu'en 1081.

Par J. Laurest (Annales de l'Est. 28° Année, Fascicule 2) Pp. 141, 1 map.

Nancy: Berger-Lecrailt. 1919. 7 (r.

Our course for the early honory of the Saljuk invasion of asia Minor are not satisfactory it is difficult to give a detailed picture of its progress and to distinguish destructive saids from permanent conquest. There are no continuously Michaminstan authorities and the later Arab historians do not deal in any detail with this period. The Armenian historians have a strong non against rise important, enformate and ignification of the Greeks, and, or the shale, are not sufficiently interested in the Greeks for record their fortunes. The Byannian winters can baselly be expected to preserve for

properity a full record of their defeats. M. Laurent has examined all the sources for the finitory of Asia Minor from 1025 to 1081, and by judicious sifting of the evidence has given a remarkably clear account of the gradual collarse of Greek power in Wistorn Asia. After the death of Basil II, in 1625 the Byzantino Empire was ruled by a continually changing sorms of incompetant, loolish, or extravagant Emporers until the accession of Alexina I in 1981. They will had able generals in plenty, but they had no longer the armies necessary. The country was devastated by nontinual civil wars, favourities hald the principal offices in Constantinopie, and the generals in the field were under meanpetent civilian control. Jealousy of the power of the great families of Asia Minor ted to the abolition of their local milities which had formed a strong line of disferee to the Engagemen were effected at the expense of the army and recruiting was neglected. The result was the catastrophe of 1071 when Remanus Diogenes, who was by no means lacking in military qualities, with he all-equipped yest levies was completely couted at Mannihort. For the next ten years we find Byzantim armies in Asia Minor, but they are usually lighting with such other. Frankish susremaries like Crispin gathered armies round them and took the defence of this country into their own hands, fun this and the consolidation of the Armenians under Philarotes resulted only in further disorgameation. Within a year or two of Manakert the Turks had devastated Asia Minor, but they had not compared it. They were still wundering nonests, but they so entired the country that the Greeks disappeared before them.

When rivals to the throne like Betaniates and Melissanos subset Turks into their service and attained them to their towns, these mercanaries seen began to show their intependence. The Turks themedises were not yet a mixed force; they remained sentenced bands of nomals and, but for the lack of unity among the Christians, it should have been an easy matter to dispose of them. Alexius Commans was the man who could have done this, but he had first to create an army and then use it against the Normans in Hlyria and Thesesly before he could turn his attention to the East. When he did turn against the Selfinks it was with fair success, but the amount when they might have been awant of Asia Minor had passed.

M. Laurent's book is the most thorough account of an important period that has yet appeared and his voluminous notes and extensive bridingraphy give some idea of the amount of labour this excellent work has cont him.

The Inscriptions of Sinai. By ALAN H. GARINER, D. Litt., aini T. Earo Peer, B.A., Part L. Introduction and Plates. Pp. 19, 86 plates. London: Egypt Exploration Fund, 1917.

One of the most important archaeological publications sawed in England during revent years is that of the Inscriptions of Smal, published by the Egypt Exploration Fund. The book is a corpus of all the known hieroglyphic and hieratic macriptions in the pennants, both still extant and now destroyed, based chiefly upon the copies made by the Fund's expedition of 1994 under Professor Petria, and on a collection of equeezes, made unity years ago, now in the British Masseum. The work is then a publication of the labours of the Fund's archaeologists plus a great amount of older and hithorto nopublished material. Its importance for the study of Egyptian epigraphy can hardly be overestimated. Several years ago in unparalleled outrage was committed by some British angineeze sent out to Sinat by a commercial company to prospect for metals. They destroyed one of the chiest and finest inscriptions with pack and hardner. The publication of the contains and finest inscriptions with pack and hardner. The publication of the contains and finest inscriptions, though beginning as early as the First Dymass (fine) a.e.), were with the Twentants (1900 a.e.), no Greek or Grasco Egyptian bi-lingual inscriptions occur, to that nothing specially interesting to Hell-nic studions

appears in the book. We can, however, congrutulate our sister Somety apen the truly sugnificant publication, which is the format, its typography, and the excellence of the olighty-dix plates, containing 253 inecriptions, besides plane challenges congrutum. Not less excellent are the laborous symptic of the inscriptions and the consimilation with previous publications, which gives the student all the information he needs or can desire. For this tabular and for their pairy-taking collabors and correction of the copies and almosts, we must thank by Gardbur and Mr. Poet, and congratulate them on the appearance of the first part of their most medial work.

Vom göttlichen Fluidum nach agyptischer Anschauung, (Papyraanatuur Heidelbarg Schrift I.) Von Fautoni in Phaisiona. Pp. 63. Berlin und Leipzig : Versteigung aussauschaftlicher Verleger, 1920.

This is the first volume of a new series of papercological menographs to be issued by the research founded Paperasination of Heidelberg, of which Professor Pressigle, the author of the present work, is the director. The multiple being devoted to the study of papercology and its director having son his well-deserved reputation by his studies in the sphere of Greek papers, particularly in questions concorning the administration of Graces-Roman Egyps, it is a little surprising to find the thome of this first volume drawn from Egyptian religion.

The thome of the volume is that the divine power resided in and was transmitted by a "divine thin!" passed on by the parent gost to the gods latter created, and by gods to said. The fluid is tound in status and effigues of the gods, or more plants, and animals if returns at death to the god whose thing it is. It is in all man, but in the Pharsok in a peculiar degree, so that he is himself god, as it were a breathing status in which the divine power is unbodied. It is by means of this fluid that the gods excepts their power; it grows acaker in proportion to the distance to which it is transmitted, and hance it is to the advantage of the god that it shall have as many anabodiments as possible; for it can be aubdivided infinitely without hes. Thus to make statuss of the god is to morease his effective influence. The fluid is the lot, that paralling Egyptian conception which has critical so much contraversy (for a recent discussion of the lot, in which in antirely different view from Presingle's in taken, see N. W. Thomas, What is the lot in Journ. Eq. Jich, vi. pp. 265-273); as Presingle puts it, ther An emes Gottos to one Fluidum disses Konigs in das Fluidum disses Konigs.

The is perhaps a fair outline sketch of Presugho's main thesis, but he deals of course with many points of detail, following out the various implications and camilications of the conception of the divine flaid. His volume is of great interest, but he criticise his theory adequately would require a sider knowledge of primitive religion in general and Egyptian religion in particular than the present reviewer can clean. A few communication may however be made.

This first point that strikes one in reading the volume as the disproportion between the evidence address for the theory of the 'fluid and the structure created upon it. That came of Precask's arguments in facous of the 'fluid theory have weight may be admitted, but it cames he said that any one or the same of them is combasted and if the theory is not attabilities then much of what follow moke relevance to the subject however valuable the otens may be as conflicted a material relating to ancient sunception of the working of divine payer. Thus on p 20 as a cold 'Das arrogs ist das potable Fluidam, and as aftered to p. 19; has so proof of the identification is offered there; as are marely sid to prove the Fluidam subject. Exchanging in a surrogs word to may at a higher and no more appropriate is assumed to denote the christophiladic Fluidam and conjugate.

Again, there is (not annaturally) a tendency throughout to stirilinite to Egyptian incology a solverence and logical definiteness which one may down whether it possessed. Then on p. 45 t. is argued that since in anneal Egypt the socialized operings were not turns, but, after being offered, were removed and assumed by the pricess, know make the Wansell objectable habon, down Gotts Speisen cam Essen darzabringon; the god received the 'durd' which was in the offerings back into himself 'durch Saagen. The logic is sound, and some such blue as Presingly indicates may accordly have been a serial but the argument is not as constantly confronted by very primitive mind one in dealing with Egyptian religion we are constantly confronted by very primitive completions is logical in its way, but its legic is not our logic and does not exclude the simultaneous building of meananteen conceptance. A child, for example, will set its food before a doll and then cut it itself; one half of its mind have that the quantity of food is undiminabled, but the other half is sufficiently under the spell of its symbolism to feel grannedly distressed if the food is withheld from the doll.

It is another result of his too logical resament of the subject that Promighs in upt to lay say, give weight on a single mative, that of the "finid" He suggest for example (p. 38) that Akhanaton's main matice in transferring his capital from Thobes to Tell el-Amarna may have been his anxiety to get away from a place where the power of the Ammon brieshhood, long established at Thebe and supported by local sentiment, was a quite adequate remain for the removal. It may be posted out by the way that the statement on p. If that the representation of the sun with the rays terminating in hands among the proved before Akhanaton's regge to perhaps open to doubt; is there not an instance in the pulsace of Amenophic III i

If however, one cannot but feel disable to to the correctness of some of Principle's views, it must be admitted that his book is a very interesting and suggestive one, and it may be that more competent Egyptian scholars than the present reviewer will be more disposed to accept the theory which it expounds.

Le Texte d'Aristophane et ses Commentateurs. By Purair Bounnaire. Pp. 301 Paris: Pontemoing, 1910

Pierre Buildraaux fall on Decamber 15th, 1614, aged 32, having the manuscript of this book, which has been prepared for press by M. Grouges Meanty of the University of Neuclatel. An introduction is contributed by M. Hanssoullier.

The book contains an account of the critical work done upon Aristophanes from Alexandrian and pear-Alexandrian times down to the Antoniman grammarians and the period of the first collection of scholls. The subject interesting but little commerciates. spoint that there are next to no new facts, and papyri are unusually sterils -to treatest with diligence and ability, and the literature, for the most part of little value, is called ample and almost too assile assount of. The book butcays here and there its incomplete alabe, but the author succeeds in investing the various grammarium with more individualtty than had latherto licen done. He relieves us ones and for all of the need of consalting the grany minor philological literature of the nineteenth century. The authortone is undependent, and he deservedly charteen Rutherford's eccentricities and the presentations of Welmowitz. It is the more to be regretted that he was not allowed time to produce an original and exhaustive history of the department, based on a new interpretation of the originals; the errors of past philology are evident an every page and could not have escaped the author's mature reflection. I will mention one the currous schollen. Siente 1508 in usually printed as ross Arraksieus show excluse said to reand in rel the, from which it is interest that an Attalean or Porgamene edition axisted as a lais period, a conception at variance with all we know of uncient publishing. The MS.

reads, as the author notes, is role drawine. The Atilia will have been publishers (like Attinua with his Arragues), in the late pages period to which we would naturally assign the beholton

This is not to decry the merit of a man to whom we owe more than books.

T. W. A

Die griechischen und lateigischen Nachrichten über die persische Religion. By Care Ceruse. Pp. 232. Giesen: Alfred Topelmann. 1929. M. 40

Fats has dualt accreefly with the interature of ancient Persia that high importance still alreading to the many motions of Ivanian religion preserved in Greek and Roman sourcea. Professor Chaman, who has published the original texts in his results historiae religionary Persians in his new work examines in detail their value for our knowledge of the origin and growth of the religion revealed to us in the Avests and in Pahlari texts, and less directly in the inscriptions of the Porsson kings. While there is modificient of the native sources, the author's knowledge of the literature in extensive; unfortunately he has yielded to the temptation to display equilition at the exponent of limitity, and by adopting an arrangement based merely on the dister of the authors cited be his been compelled to repeat aper thus once the same arguments. But is the main his judgment is would, if not original, and the painstaking completeness of his arguments renders them valueble even when they are unprevious.

On the strongth of the evidence of Xainthes the author accepts the view which places Zorosator's date met later than 1100 p.c., a date for more plausible than that contraded for by Jackson in his Zoronster. But his attempt to prove that Zoronster was not muruly born in Western fran, but that hie lifework was performed there and not in Baktera. implies a faith in the cestimony of Cherca of Mysilene which the nature of his corne entirely perchides : the balance of evidence is clearly in favour of Bilitria as the seem of the reformer's offeres. On the other hand the sejectors pp. 43, 44) of Moulton's effort to find a remanscence of Zorouster a childhood in Vergil's Fourth Ecloque is convincing. The discussion of the fascinating question of the religion of Cyrus, Cambyses, and Durens (pp. 54-77) is exceful and complete, and the conclinace that all three were Zornastrians is far from implannible , of special interest is the argument (pp. 115-21) in refutation of the common epilmon that the mode of burnil of the Achaemenidae is inconeastent with the prescriptions of the Avesta. Here, as throughout, the classical notices are handled with cure and discretion, while full use is made of France's rich collections of sacred rites, and his treatment of the Saken is defended (pp. 125, 126), and very convincingly, gamet Gallickon's criticisms.

War conditions doubtless explain some emissions incommetent with the author's contail leve for completeness. Thus on p. 40 Konnedy appears as the latest authority for the date of Kantakka, ignoring Marchaell's decisive arguments. J.R. 4.8, 1914, pp. 973-86; 1915, pp. 1915, and chewhere; No reference is made to Carnoy's Learning Mathelogy, and the refutation (pp. 205-23) of Madham's theory of the aboriginal character of the Mag would have been more interesting had it been possible for the either to take account of the objections mosel to the aggregian in J.R. 4.8, 1915, pp. 790-9. But the two criticisms are applementary to each other, and the conditions in unavoidable that we cannot more hope to direct him of instruction in point of race between Zorometer and the Mag, among whom Xinthos appear to have reckoned him.

The author deality p. 20) the correctness of Aeschylm's information when in the Persol he represents About as styled wife and mother of the real of the Persons, on the ground that there is no other early evidence of delification of the Persons and the deality as an exclusive many special reason obvious for an invention of the ideality Academia, while Theopenpers marrative (p. 131) of the episode of the Argive Nikosiratos suggests that the behind in the dismity of the king was an early correspond which might easily have developed with the extraordinary success of the founders of the

anomarchy; the absence of any Vedia eculiance of the sourch share-ter of the king-hip, complete with the ede-me of the Arada, tortaids as to order it as a primitive commedian among the Indo-Braniane. The Indian bullet that the gode, unlike men, east no shadows shock light on the assertion of Theopenpers (p. 129) that in the and when the strike of the good and the ard define a core some sill be been, nother resulting food for our range-lindare. On the cities beauty in the problem of Thom and Yana in the Republic 1, 100 should be invoked (p. 211) to establish that the gractice of determinating had its origin in some region in the rengaleourhood of India. The problem there deals with line every appearance of arising from a partly myslonegical came, the conception of the region of men trees pair of true, it of advances is it incurated plansible to see any comment in contemporance mentaurs.

Prof. Clamen accepts up. 84) Litzens a explanation of the rationals of the march of an acmy between the partient of a victim for purp as of gerelleation, but does not meet the objections to that theory (J. H. S. except. 238). The autting of liab and the bearing of chathes in branching his holds (p. 124) to burn davide to reputer the mourner mure exmissible by the dead or the apric of death, a view which is at least ter narrow, so natural are these acts as expressions of primitive great. Not is it or than that we are second the migration (p. 142) that the Magi touched the gatine with alender twice because there was believed to be bitent in the twist supernatural power. The theory assumes, without sufficient grounds; that the twigs were of some special knot, tamaries. myrtle; or laurel, and it is at least no probable that the reason for thus tenching the victim was to source for the primate contact with the divine spirit which is secured for come down to particle of the sacrifice. Possibly it was in this way that the grass strewed for the pariller, which marked the old Indo-Iranian storthon, persond over more the barrons of the Passis, abundle of twigs held in the priest's band; the priest may first have need a hamiful of grass with which to touch the victim, and later adopted twins as a since effective means. The shall of the specific material of the twice may have been inclusived by other normalizations, but Prof. Clamen's view gives no informate ground for the edgin of the practice.

The union does much less than pasture to the work, while the absence of creek teferance is confusing. The author has also given a beside by repailing aspect to his representation of frame name sky aloptic Bartholomous's translativation, but insisting on giving the nominative instant of the stem. Kanarkes (p. 40) and Hoverkes (p. 100 are no more than representings, the remaining for she and it is hardly manifolds to explain away to the engravers around the appearance on a coin of Havidta's of a galdance error.

who recalls just bely the quaint notice of Mitra in Herodistre, i. 191

A. BERTHEOUGE KRIEN

Beitrege zur grischischen Religionsgeschichte. HI (Vid-makapatiskapats Skrifter II. Hot. Filos. Klasse, 1919. No. 2.) By S. Errana. Pp. 202. Kristiania: Jacob Dylovad, 1920.

In Extrem's latest contribution to Greek radigion falls into two months equal pursons; in the first root chapters he supplements the descriptions of the had on his Optionalist of Vergree modeled in this Journal, xxxvi. 197), while in the first three he discussified relation of America and the Kaukones, page in mythology, and the mythological algorithms of the objects of the foundars of the Greek columns. The coults are invested in the excend part are, on the whole, disappointing. The effort to prove that the argument of the Kaukones is the algorithm of the Kaukones in the algorithm of the Kaukones is the algorithm of the Kaukones in the Had proof that Airolea's original home was in Arcadia as shally unconvening. The same vertice must be passed on the long chapter (pp. 151-92) devoted to proving that the Greeks had no reliable information

regarding the familiars of their wally colonic and supplied the defect by the presention of his new historically valuely. Incl. important for myth and out. The process is slightly an Archae and a Thoughts are obviously so epithly of explanation, but so autocomments is Themseshames. The problem is a difficult one, but excelled examination of the details of the discount of the inclination of the details of the discount of the ineffectiveness.

The shapiers on ground are of some solid value. The first doubt with the use of liberrous of water for various purposes, it is parily polement, being directed against Stanged's stone (Hermes, 1, 530 ff.), but not all of Dr. Ettrone components are improvements. The second number a muscellaneous collection of points under the culture Embrimisalies and Frendes in den Optaviennotum, including the attachment of gods and person to particular apole, the encodings of boundaries, the revenues pull to the emplo, and the excusion of strangers and slaves from extein cities. Chapter III. in derected to the shekeys, and addings an interesting parallel from a rise practiced by the Arabs of the seat of the sea of Tiberess to reconcile a numberes with the relations of the murriesed nion. The explanation suggested for the practice is cofreshingly simple; ignorms the suggestion that the woman wall for the shedding of the vistim's bindred blood, and negativing the traditional explanation (Eur. fr. 353) that the my is an invitation in the goal, Dr. Russen holds that the rate is intended, at the culturation of the offering, to drive away the evil species which, attracted by the shoulding of blood, soight attack the women present at the sacrifice. The most chapter is a valuable inconvergit on annual processions, concluding with a brial notice of the servival of certain of their characteristics in the risual of the Catholic Charein,

Throughout the work De. Kilvens remains bittlered to his belief that the sandapered the gods is derived from the respect shown to the deal. Thus the new of water is the worship of the gods goes back in its various forms to the ritual of death (pp. 11, 12) even the explaint of their statues is a color of the ceremonial purification of the body of the dead mus. Gala is decied a princitive claim to worship; she is preceded by sports of the dead (p. 22). It is not, therefore, covering to not that even the linear offered to Helies and the sacred exest (pp. 138, 137) are suspected of derivation from a childrenian oult, but it is inexamenble to find a recognition of the conjunction in Helius shrout in Old xii. 385 to descend into the realm of Hodes and shine union the dead. Precedon also mares the fate of Helico; we have (p. 138) that his connection with the sea of not primitive; as lord of the scale of the dead he is lord of the depths of the ocean where lie the drowned, keet of the winds which they raise, and thenes had of the one generally: The dark horses, with which according to Europides (Andron, 1011) Posendon tures over the sea are me, as even the scholiast knows, the horses of the scarged, but chilhonic in origin (p. 120), here we assumere the midner ignores the weight of evidence as address. s.s. in Farnall's Colle of the Greek States (w. 5 ff., 20 ff.). Italiana, in the author's slow. is thes essentially related to the things of seath, and is not even in part a reflex of the antivirges of litte, a possition which in that heart cought nor samply to be a submode

4. 10 K

Hellenic Architecture: its Genesis and Growth. By Kawasa Batt. Pp. 185, with numerous illustrations. London G. Bell and Sons, 1920. 7s. 6d.

This field lead gives a amount of much of the latest information on the generic of the Great temple and of the exists, and attempts a more or be commerced survey of their origin and development. The author decree the Great temple in its main fines from the Mycemacan magazine and both Dorie and Ionic from the Angers echiam. He considers that the investors from the North adapted for their own religious are the tyle prevailing among the people they conquered. There are no trace of actual temples in the Argun are the wooden column was an important constructive dismonstrative and of columns in the Argun are—specially in Crete and Argults—be thinks may be due originally to Egyptian orificates, and the transition from wood or some in the

Dorlan period his also attributes to the same factor. We know, however, that stone

half-golamins were already in the in the later Aegenu period or Myonine.

The development of the limit enter out of the Asysan column he consider was the result of every action particular of flittite influence. Mr. Bell discusses the principal temples of both orders in relation to the development of the two cyles and has a dierricitapler on the Corinthan order. The information on minor points is, in some several charges on representate, non-quite up to date. The war has probably made this unavoidable. The main defect in the book is the inadequacy of the flinetrations. The photographs, plans and date large are crossly called from well-known publications, reduced in size and leadly mental. In some cases much needed illustrations are constant. For instance, although such amphasis is fail on the influence of Egypt in the development of the Grack solumn me examples are given. Again, temples are described and not illustrated, as that of Zen at Atrages.

On the whole the book hardly postines its rather ambittone title although it contains

swittl information in a small compact.

Skizzenbuch griechischer Meister. Ein Einhlick in das griechische Kanst sindhum auf Grand der Vasenbilder: By Kant Resenuora. Pp. 167, with 300 illestrations. Montel, Bruckmann, 1919. M. 15.

Professor Reichthold would know mas the anthor of the uplendid drawings in Fartwanghic and Reichhold's Griccheste File managers. He has size paid above attention to the technique of Greek vasc-painting, and has published the result of his mysetigations in the same work. The present lead is addressed to a larger publis. The author believes that the armire of the Greek system of drawing, we a could be red-finized vascs, has provided value; that the arcicle method may serve as a basis for the training of the mounts after.

The annions draughtsman was clustly conserned with the randering of the human tagure, and of the human figure in typical forms. His early training was not based on direct study from accure has began to hearn drawing as we legin to have writing, by principling certain alementary alrokov, alreight liusa, pot-hooks and the like, until he was able to represent them satify and randilessly. He then proceeded to mustor the combinarought these obstants to combin the different parts of the body, took, hand, breast, last; and the symbiantism of the parts, according to a prescribed system of proportion and squaretry, to under boundess fleares. The author illustrates this course of training by figures, and idetails of figures; from vasse, and traces the changes in drawing; and in the arrigude or the draughteness towards nature, from the time of Ambokides to the and of the fearth contary. There are good chapters on the rundering of the figure at real and in motion, and a good sludy of Greek shahes and the representation of them. The numerical and discusing illustrations are taken from years which the author has drawn for Forrwonging Ruchhold; a good many of the drawings have not been published before, auch as ag 3 (Manich 2386); pl. 29 3; pl. 28; pl. 31, 2; pl. 42, 3 and pl. 67, 4 from the Helen two with Valience, pl. 45, 1, pl. 51, pl. 55, 1, pl. 50 from the Pronomon res 10, 50.

The author discusses, partly in the course of the acquirent, and partly or footnotes, a number of inquations reclaimed questions the mass of the cases, the unumning of two partless the relation between two-painting and free painting the size of the workshops. He committee that the painted vame are too fragile and too porous for everyday use; they were mainly ornaments, he thinks, but he admits a "temporary use for household purposes. No dealet the confinct were only used accordingly and represently the others could easily be replaced. We may agree with him that they were assed for storage, That slay hydrian cent to the formain is shown by Polyxem a

broken hydra. In the question of congress, the author's view is thin to Mr. Politics of the typerbe man becomes a very puny follow, yet one would think that this view of flaqued with the mala bless of Professor Belchhuld's book.

What the actions will think of Professor Reichlocht's system is uncertain; certain that the Socialization is very welcome as one of the few good introductions in the study of varies.

Read Wirzharg doc Manish on p. 53, Attie for Italian on p. 93; Vatient for Burlin on p. 97, Makron for Bryges on p. 153.

Heips for Students of History No. 38, Coms and Medals -By G F Hull. Pp. 62, London S.P.C.K., 1920, 18 th.

The editors of this fiftle across of commentacy burdlooks evidently realize that if "archaeolicy without tears" is to be anything but a stand they emit every the composition of the most highly qualified up table. For come and module they have been particularly corrected an indicate the across of Mr Hill. The correctory chapter the last of them every band—deal with the ceneralities of the subject in a manuar at once final and interesting. The prepare the ground for what is undoubselly the most emportant section of the whole, a carefully selected bibliography arranged mainly on ographical principles. The beginner will unit there a valuable set of flaggregories and over the upper may introquently be giral to writh threshold of the inner that Mr. Hill has to offer. A great learnt of the took pathod it would will also understant modules modern as well as auxignt and medianceal numbers and

(1) The Lewes House Collection of Ancient Gems By J. D. BEARTY-4to, Ph. 36-124. Twelve-collectic Plates Output Chronic Plates, 1920. 38s.

(2) Catalogue of Engraved Game of the Classical Style. By Grana M. A. Bronres. Sec. Pp. lexiv +202. 88 half-tone Plates. New York: Metropolitan Mussum of Art. 1920. 5 dollars.

The two books are of interest as nearly small amoust any in the are of catalogonics. The collections with which they dead are both of modern formation, saled to character, and of a reamageable size.

Mr. Barrier deals with the choice collection of Mr. E. P. Watran at Lewes Home. The back contains £35 entries only, and no introducition or a sectional professe. On the other limit, each cone is discussed with the limitarity amplitude namely more characteristic of a special publication of an individual example than of a stallegue. The whole collection is discrete in the first night place. Two more plates give the ground process enforced, and two give gens quoted in illustrations from alwayshore. This is a feature of interest, there all are notable stones. For example, Levil Southers's boundaried maker feeding the point of his array (Pl. A. 10) can be compared with the fine Levil Home in a fee-like cap can be conveniently compared with the former Zurii version of the same appears in the British Mossage.

The collection of space at New York is considerably larger, and Miss Richter's catalogue has 404 minutes. Her contribed is the more usual one of natalogue entries, for the most part contribely drawn up, with a useful introduction and motion profuses.

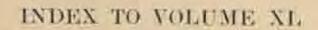
The nucleus of the collection was the group of mature archaic integlies of the implicationality from Councils excavations in Cyprus, his described by Mr. C. W. King in an appendix to Casuala's book. It is not worthy that no heating is made

of the mytheral "Treasure of Curum to which they were originally each to believe Numerically, the main constituents of the following were the gain puthered together by Mr. King him of Justing the include years of the has century. These pieces when falling of averight abliged him to disange his disginue from gams to chura, he sold, along 1878, to Mr. J. T. Johnston. Provident of the New York Museum The collection was given now after to the Massum by Mr. Johnston. It concerns a good election of typical work, meanly Grack and Granco Roman and a meterly free from the discontinuous decomples that had been wought for at an extinct date. The Grant collection of glass given to the Museum by Mr. Morgan in 1917, communes a good variety of pastes. Other interesting pieces may town added by single purchase.

As on the case of Mr. Bendey's catalogue, marry all the came are given in the plates though a back of plate references in the text index it necessary to do some marriage to find them. The important objects are also shown in an arguments, but the method adopted of combining both impression and unlargement on the same relatinger tablet quartically gives the ne double exempted impression that we have before as a photograph of the impression and of a machine at enlargement of it, and not photographs of the same object on different water. In all the plate both the cases and the unique on which they rest are made to brow arrong chartows to their lote, and the arrongement.

which is new, door not seem happy







INDEX TO VOLUME XL

1.—INDEX OF SUBJECTS

4

Asiabita, momentary syntam, 168 Adenia, myth. 114 A -diylar, - marpainting, 185 Afrolito, japyri, 8 Agatheches, minter 180 Angkorois, 198 Alketas, defected by Antigoma, 107 Anatolian gods, 93, 202, name, 107 Antigoma Gonalus and Athens, 144 Antiochus, astronomy, 208 Aphredite Analysmena, status from Cy reno, 203 (on Eudovisi Throne, 113) Aratus of Solie, hymne, 149 Archermon sons, 161 Archons, Athumina, dates, 143 : Delphian, Art-like Otinglianna, on more 26 Aristophunes on music 21 Aristotle, in anniec, 19 Aristonomo, on music, 22 Astronous, 1938 Athemais, Atherina tribs, 201 Athems, archors, third-contary chromology, 143; trillion; 201. Auluko-, Plantin, 101 Aulogrene, fantes, 92; Aulon, Pisidia, 93, 107 Aurelian, Winney Dissiprime, 40

11

Bouton counterpart of Ludovisi Throme, 113, 137; Missian Stationto, 175

63

Cassionomis, music, 40
Chies, coinage and commerce, 160; more-tary standard, 168
Chromonidam war, 153
Chrysolulle, 68
Cherro, music, 22
Climian Gates, 89
Chemide, music, 25

Cleostiatin, astronomar, 268
Calcare in pointing, 181
Commorce, Chica, 100
Camman, Torkinh compaigns, 97
Combaninople, manuscroots, 3, 11; Vesse mans, 58
Comelium Nepos on Marathon, 43, 200
Crowns, Minoan, 177
Crowns, Minoan, 177
Crowns, Minoan, 177
Crowns, Minoan, 177
Crowns, warble statue of Aphrodii - 200
Lysius, claritum comage, 165

D

Unios, aboragic insscriptions, 146 Delphi, third-century archons, 186 bymus, 28 Damecritus on colours, 181 Diss, Athenian tribs, 201 Diomed, in Homer, 47 Desirons Patrons, MS., 10 Doktons, improcessed by Antigonas, 197

R

Ethernva coinage in Asia, 161 Emission, at Constantinopie, 75 Ephorus, on Marathen, 44

F

FLUME, 20

17

Gamanos Enadinarcos 197 Galles, 198 Gent-priests, 198

H

Haustasopotas, site, 100 Hephaustias, Athunan tribe, 201 Hera of Kanashos, 137 Heraclaides Pontiens, music, 18 Holkham Hall, best of Plato, 192 Homer, form of poetry, 47 Hornest deities, Minana, 178 1

los, sona, 201 butien result, coinaga, 104

-

Justisian, echools of Atlanta, II

K

Kavarina opeing of Hera, 140 Kara-Hisar, Invites (Abronnes), 160 Kelamat, 89 Kelkida in Cappadonia, 89

1.

Leurica, Militades, 45. Selemins, 148 Leurickephalon (Kara-Hisson), 110 Leurica-Kome, Phrygas, 111 Limmar, Pindia, 96 Limbersi threas, 113, 137 Lymmathos and Athena, 146 Lymmathos and Athena, 146 Lymmathos and Athena, 146

41

Mannes 94
Marriss 94
Marriss 94
Marriss 94
Marriss 94
Marriss 160
Matthe of Chios 160
Mattha 162
Mountain on Antigorius 148
Militates in Parce and Lamnes 43
Minnesia writing 1
Matter of Epignens 175
Mys, letter of Epignens 152

3

Nemean games, at Avgos, 156. Norman, Venue and Constantinople, 72 Notkerne, music, 41

13

Occurers, Sulian Dagh, 60 Orchamenta in Areadas, proxess decress, 144 Occure of Europides, music, 26

1

Parva, introduced by Araba, 11
Papyel, cursive writing, 8
Parva, Milriades, 43:
Perama, Combactimople, 77
Paraian monotary standards, 171; patromago of Cyslicene colonge, 166
Perapoetrye in painting, 181
Philodomos on Antigones, 148
Philodomos on Antigones, 148

Phrygus, goat priests, 198; topography, 111
Pisidia, topography, 89; walf-priests, 197
Platic, on music, 18, 20; on painting, 180; partruits, 190
Piloy, on coloura, 185
Platarch, on masse, 22
Possulfonias, Athenian tribe, 201
Proteny, on astronomy, 208; music, 34
Proteny II, and Athens, 148
Pythagores, massic, 28

38

Sceptro. 178
Steptro. 178
Steptro. 178
Silven, of temples. 120
Selection and Athens. 147
Silven; relating in Aids. 101
Sophrosyne, 57
Sozon, god. 202
Sphinz, con-type as Cline, 169
Stepliors, beautied head, 180
Stealer, topography of Asia Minor, 97
String instruments. 20
Studiem, amassicry, 5
Stymphalus, cults of Hera, 129
Symmum, head of Plate, 191

FF.

Tablets, according, presser, 89
Telemachies, in Homer, 58
Tenedes, embassy to Athone, 451
Tenedes, embassy to Athone, 451
Teness, Athoness on Democratus, 182
Theophresiae say Democratus, 182
Thymbridg, site, 160
Tryse, bernacotta carmettes of Hera, 157
Tryse, bernacotta carmettes of Triess, 185
Triess, Cold forma, 200
Tymbridg, site, 105
Tymbridg, site, 105

E

Usugasaw Gospula, 2

N

VENETIANS in Constantinople, 68 Vigla, Constantinople, 76

11

Water Grand BR

100

Xinxi - march hi targage, 50

2

ZIMAS, SITE, 1111

IL-GREEK INDEX

Δερικόρτας 200 Δεσίαστας 5 Δεσταγραφία, 180 Δεγικόρς 200 απιενίας 17

Framm, Willy

hans, 197

eilde, 201 e dere green 140 eel Hoen, hvorre, 140

loogidoo, 136 oranikoo, 148

aminis, prinstana, 1981 squarephone, 1781 sohourse, I

temperative, Horac Int.

Landing Many

Servisposes, hyum, 149 - pomy, white, 7

Salvin, Hera, 128 room, 31

description 1800

111/mmi 201

III.-BOOKS NOTICED

Autzen (C.), * Phone on 291

Bossley (J. D., Att. Rad Figured Vans. in Increase Moscom, 124 : The Level Homes Collection or Americal Grant, 236

Bell (E.), Hellanic Architecture, 234 Billiaga (T. H.), The Plataneous of Phila Julianus, 134

Hamiltoning (P.), to their P. to reterphone of ne deministrations, 231

British Metallight, Hambi tillares in Links deny, 217

Carcapana J., La les de Hieres et la Komma, 133 Comma Op. Die gradinales and latera.

when Nuch Blen ale. The principle the Figure, 242

Combine V E. The Hoteling 20

Dickers (G.), Hilbertine S. Approx. 218.

Elizani Bil. Britishe was quickly by He-Linux she ice vol. or., ERI

Finance (P.), he make the horse ther bey Or son 218

Foundary (A.), Lord proce-buddhiyas do Gandhara, vol. 11., part 1, 2009

Gardner A. H. and Part T. L. The Immorphisms at Sinci, Part L. 229 Gronfell (B. P.) and Hunt (A. S.),

Oxposime has Papers, Part XIII., 211

Harman (E. G. Tas Bires of Science Minutes 210.

Harris (IL), Prime volus as glass Zeen, 170; The Assent of Obsurgers, 130; Test-

more, 131.
Recount Studies in Classical Philaders (1017, 1948, (1919), 215

Hatefeld (d.). Les fradiquents dedens des Plane hell some 130

Hill (6), W.A. Coine and Medale, 236 Hi path Ob. G. Hillis Sec. 223

Hoppin (d. C.) A Handland at Alle Het squared for a support in menticipated to the meranic Moulers of the Pifth and Stath Friday His Int

Korn O.) and Straygonaki (J., Orphens. G430

Luxun (I.). L'Abillia estre Things of "Illam legar la compute urata paga ta 886, 228; By one et les Ture sellencete days I day wridentale propiler 1061, 228 Linkovik (I. M. A. Solom the Athenesia, 128)

Marshall (F Mir. Promotory and War of Lands, 217

Mayer P. M.), Juristiche Payme, 213

Umonie H.A. Moinille Magnetal and interior on Orient, 1977

Parmentler (L.). Redecites are le fruite a leie et a Corre de Pintangas, 12

Contion (F.) Delphi, 227

Proschniker (C.) and Schober (A.), Archive edogistics From harrison to Albanian and

Mentenegro, 215 Proiséglie (F.), Fran göttlichica Fluidion oach acryptischer Anadiannug, 230

Reighhold (K.), Strandard graduator all calmy Time

Wichter (G. M. A. L. Catalogue of Emperous House of the Countried Style, 230

Robertson (& T.), A Gram nor of the Green New Codament in the Light of Historical Resident A. 210

Kostagm (A.), Grafiama l'Apostata, 216 Roussel (P.), Les cultes égaptions à Diffes ile III on ler, saide want J. C. 127

Songai (R. B.), The Courtery of Puchyam mos, Creto Pres

Symponics (J., S.), L'hellenium primitif de la Macedaine primer par le minimissippi et l'or du Pangle, 224

Traver I.A. Ref. of History of Green From Smile Throught . 12s.

Walker IR Joh The Libraritor of Sophis Jrs. 131

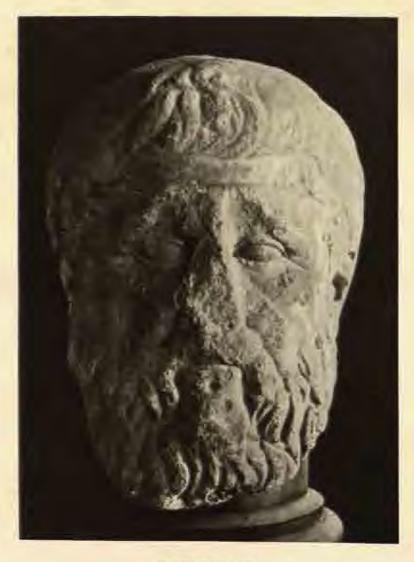
Wiegami That Wie na Lightliche Progent lichonias der donte hanke ichen Bunkmidwhat Kommunder, Hall I., Small 214.

Zeitinhvift for Kildenda h . 1919, K and special in Kross, 214



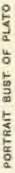






HEAD OF PLATO







PORTRAIT BUST OF PLATO



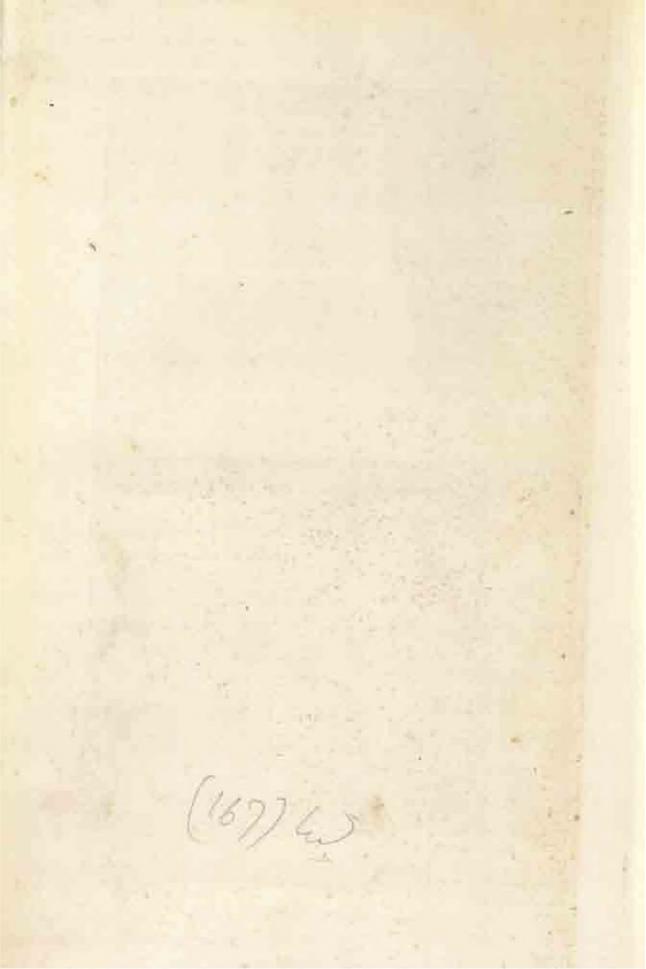


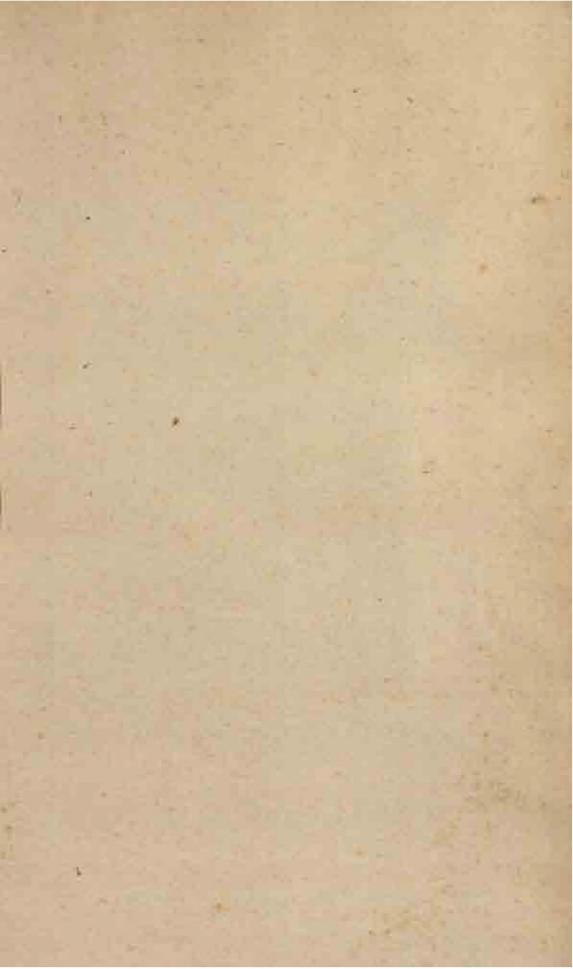
MARBLE STATUE OF APHRODITE

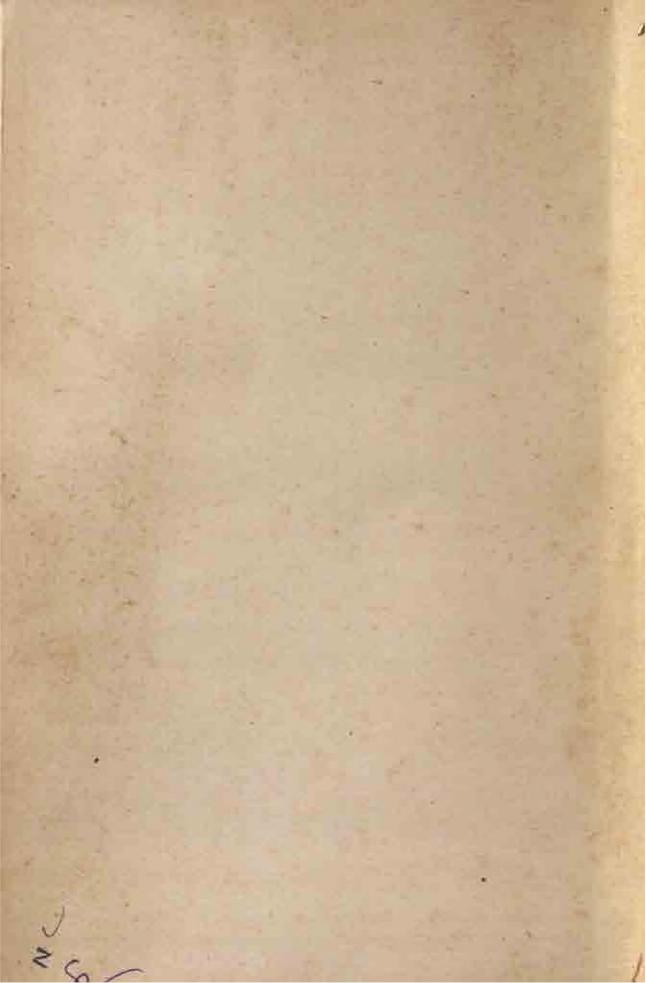


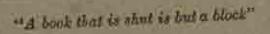


MARBLE STATUE OF APHRODITE









GOVT, OF INDIA

Department of Archiseology

NEW DELHI.

Please help us to keep the book olean and moving-

SHEW AND PROPERTY.